



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 124264

TO: Alton Pryor

Location:

Art Unit: 1616

June 9, 2004

4C70

Case Serial Number: 09/841820

From: P. Sheppard

Location: Remsen Building

Phone: (571) 272-2529

sheppard@uspto.gov

### Search Notes

27

Access DB# 124264

## SEARCH REQUEST FORM

### Scientific and Technical Information Center

Requester's Full Name: Allen P. York Examiner #: 74458 Date: 6/2/04  
Art Unit: 1616 Phone Number 30 2-0621 Serial Number: 09/891/820  
Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

**If more than one search is submitted, please prioritize searches in order of need.**

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Search claim 30  
a) substituted  
b) ALL - sulfon, lura, chlorosulfuron,  
chlorosulfuron, metsulfuron,  
sulfuron, sulfamethuron,  
tribenzuron, isoproturon, metolachlor,  
sulfonamide

some replacement data for DS) 1100 L1)

combine (4) + (5)

\*\*\*\*\*  
**STAFF USE ONLY**

	Type of Search	Vendors and cost where applicable
Searcher: <u>Stacy</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: <u>6/9/04</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

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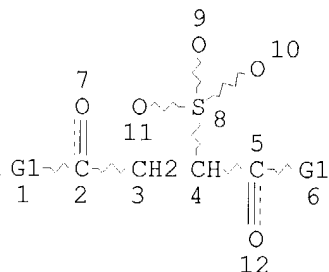
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FILE COVERS 1907 - 9 Jun 2004 VOL 140 ISS 24  
FILE LAST UPDATED: 8 Jun 2004 (20040608/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1 STR
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VAR G1=O/NH
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
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GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L3	3283	SEA	FILE=REGISTRY	SSS	FUL	L1	
L4	133	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	ALS(W) INHIBITOR	
L5	329	SEA	FILE=REGISTRY	ABB=ON	PLU=ON	ACETOLACTATE SYNTHASE?/CN	
L6	1577	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L5 OR ACETOLACTATE(W) SYNTH?	
L7	605	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L6(L) INHIBIT?	
L8	638	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L4 OR L7	
L9	12352	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L3	
L10	1	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L9 AND L8	

$$\begin{aligned} & \Rightarrow \\ & \Rightarrow \end{aligned}$$

=&gt; d ibib abs hitstr l10 1

L10 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2001:816370 HCAPLUS  
 DOCUMENT NUMBER: 135:340483  
 TITLE: Stable liquid herbicide formulations  
 INVENTOR(S): Wuertz, Jochen; Maier, Thomas; Schnabel, Gerhard;  
 Haase, Detlev  
 PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany  
 SOURCE: PCT Int. Appl., 44 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001082693	A2	20011108	WO 2001-EP3879	20010405
WO 2001082693	A3	20020314		
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10020671	A1	20011108	DE 2000-10020671	20000427
EP 1278416	A2	20030129	EP 2001-938088	20010405
EP 1278416	B1	20040407		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001010406	A	20030211	BR 2001-10406	20010405
JP 2003531838	T2	20031028	JP 2001-579586	20010405
AT 263487	E	20040415	AT 2001-938088	20010405
US 2002016263	A1	20020207	US 2001-841820	20010425
PRIORITY APPLN. INFO.: DE 2000-10020671 A 20000427				
WO 2001-EP3879 W 20010405				

OTHER SOURCE(S): MARPAT 135:340483

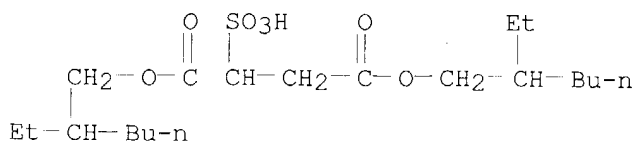
AB The invention relates to stable liquid herbicide formulations containing one or more derivs. of polycarboxylic acids and one or more **acetolactate synthase-inhibiting** herbicides. The polycarboxylic acids are sulfosuccinates and/or gemini surfactants.

IT 577-11-7, Triton GR 7ME

RL: MOA (Modifier or additive use); USES (Uses)  
 (Triton GR 7ME; stable liquid herbicide formulation containing)

RN 577-11-7 HCAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI)  
 (CA INDEX NAME)

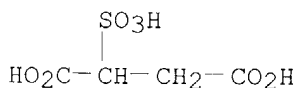


● Na

IT 9027-45-6, **Acetolactate synthase**  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL  
 (Biological study); PROC (Process)  
 (stable liquid formulations containing **acetolactate  
 synthase-inhibiting** herbicides)  
 RN 9027-45-6 HCAPLUS  
 CN Synthase, acetolactate (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT 5138-18-1D, Sulfosuccinic acid, esters and salts  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (stable liquid herbicide formulation containing)  
 RN 5138-18-1 HCAPLUS  
 CN Butanedioic acid, sulfo- (9CI) (CA INDEX NAME)



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FILE COVERS 1907 - 9 Jun 2004 VOL 140 ISS 24  
 FILE LAST UPDATED: 8 Jun 2004 (20040608/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1	STR			
L3	3283	SEA	FILE=REGISTRY	SSS FUL L1
L4	133	SEA	FILE=HCAPLUS	ABB=ON PLU=ON ALS(W)INHIBITOR
L5	329	SEA	FILE=REGISTRY	ABB=ON PLU=ON ACETOLACTATE SYNTHASE?/CN
L6	1577	SEA	FILE=HCAPLUS	ABB=ON PLU=ON L5 OR ACETOLACTATE(W)SYNTH?
L7	605	SEA	FILE=HCAPLUS	ABB=ON PLU=ON L6(L)INHIBIT?
L8	638	SEA	FILE=HCAPLUS	ABB=ON PLU=ON L4 OR L7
L9	12352	SEA	FILE=HCAPLUS	ABB=ON PLU=ON L3
L10	1	SEA	FILE=HCAPLUS	ABB=ON PLU=ON L9 AND L8

L11 465 SEA FILE=REGISTRY ABB=ON PLU=ON SULFONYLURE? OR CHLORSULFUR?  
OR CHLOIMURON? OR METSULFUR? OR SULFURON? OR SULFUMET? OR  
TRIBENURO? OR IODOSULFURON? OR SULFONDI?  
L12 14200 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 OR ?SULFONYLURE? OR  
?CHLORSULFUR? OR ?CHLOIMURON? OR ?METSULFUR? OR ?SULFURON? OR  
?SULFUMET? OR ?TRIBENURO? OR ?IODOSULFURON? OR ?SULFONDI?  
L13 39 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND L9  
L14 38 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 NOT L10

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=> d ibib abs hitrn 114 1-38

L14 ANSWER 1 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2003:673773 HCAPLUS  
DOCUMENT NUMBER: 139:192911  
TITLE: Agrochemical preparations floating and moving on water  
surface, their manufacture, and application method  
INVENTOR(S): Kamata, Yasuhiro; Innami, Haruki  
PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003238306	A2	20030827	JP 2002-16808	20020125

PRIORITY APPLN. INFO.: JP 2002-16808 20020125

AB The preps., which have bulk sp. gr. <1.0 and are rapidly spread over water surface after application, are manufactured by (a) premixing active ingredients, carriers, surfactants, and optionally other additives, (b) further mixing the composition obtained in (a) with solid surfactants, (c) granulating the mixture, and (d) further molding the granules if necessary. The preps. may be packed by a water-soluble film. The preps. are applied at 2-20 kg/ha. This method provides granules having uneven interfacial tension which show increased moving property. Granules (sp. gr. 0.38) were manufactured by the claimed process from anilofos, **ethoxysulfuron**, Microsphere F 80 (hollow acrylonitrile polymers), Na lauryl sulfate, solid Na dialkyl sulfosuccinates, Na ligninsulfonate, Na bentonite, talc, and H2O. The granules packed with C 200AX (water-soluble PVA film) was applied to paddy to show rapid diffusion.

IT **5138-18-1D**, Sulfosuccinic acid, dialkyl esters, sodium salts  
**83055-99-6**, **Bensulfuron-methyl** **98389-04-9**,  
**Pyrazosulfuron** **120162-55-2**, **Azimsulfuron**  
**122548-33-8**, **Imazosulfuron** **126801-58-9**,  
**Ethoxysulfuron**  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(manufacture of agrochem. preps. floating and rapidly moving on water surface after application)

L14 ANSWER 2 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2003:42999 HCAPLUS  
DOCUMENT NUMBER: 138:68344  
TITLE: Lignin-based microparticles for controlled release of agrochemicals  
INVENTOR(S): Asrar, Jawed; Ding, Yiwei  
PATENT ASSIGNEE(S): Monsanto Technology LLC, USA  
SOURCE: U.S. Pat. Appl. Publ., 26 pp.

CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003013612	A1	20030116	US 2002-191703	20020709
WO 2003005816	A1	20030123	WO 2002-US21722	20020710
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1404176	A1	20040407	EP 2002-748113	20020710
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			US 2001-304554P	P 20010711
			WO 2002-US21722	W 20020710
AB	A method of producing lignin-based matrix microparticles for the controlled release of an agricultural active includes forming an emulsion of an organic solution in an aqueous solution, wherein the organic solution contains a lignin derivative and an agricultural active in a volatile organic solvent and the aqueous solution contains an emulsifier; and removing the organic solvent, thereby producing microparticles having a matrix comprising the lignin derivative within which the agricultural active is distributed. Small, spherical lignin-based matrix microparticles that release an agricultural active at a controlled rate are described, as are plants and plant propagation materials that are treated with such microparticles.			
IT	5138-18-1D, Butanedioic acid, sulfo, derivs. RL: NUU (Other use, unclassified); USES (Uses) (emulsifier in preparation of lignin-based microparticles for controlled release of agrochems.)			
IT	64902-72-3, Chlorsulfuron 79277-67-1, Thifensulfuron 79510-48-8, Metsulfuron 82097-50-5, Triasulfuron 94125-34-5, Prosulfuron 99283-01-9, Bensulfuron 106040-48-6, >, Tribenuron 111353-84-5, Ethametsulfuron 111991-09-4, Nicosulfuron 113036-87-6, Primisulfuron 122931-48-0, Rimsulfuron 135397-30-7, Halosulfuron 135990-29-3, Triflusulfuron 144651-06-9, Oxasulfuron RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses) (lignin-based microparticles for controlled release of)			
L14 ANSWER 3 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN				
ACCESSION NUMBER:		2003:42092 HCAPLUS		
DOCUMENT NUMBER:		138:112443		
TITLE:		Tablet compositions for poorly-compressible pharmaceuticals		
INVENTOR(S):		Matharu, Amol Singh; Patel, Mahendra R.		
PATENT ASSIGNEE(S):		Geneva Pharmaceuticals, Inc., USA		
SOURCE:		PCT Int. Appl., 20 pp.		

CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003004009	A1	20030116	WO 2002-US20323	20020627
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003021841	A1	20030130	US 2002-183881	20020627

## PRIORITY APPLN. INFO.:

US 2001-302613P P 20010702

AB The present invention relates to a process for preparing tablet dosage forms of poorly-compressible pharmaceuticals and to tablet dosage forms. The process is especially useful for preparing tablets of the poorly-compressible drug metformin-HCl. Thus, tablets contained metformin-HCl 500, HPMC 320, stearyl alc. 200, and Mg stearate mg/unit.

IT 64-77-7, Tolbutamide 577-11-7, Dioctylsodium sulfosuccinate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (tablet compns. for poorly-compressible pharmaceuticals)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:396535 HCAPLUS

DOCUMENT NUMBER: 136:381759

TITLE: Pesticide compositions, their manufacture, formulations, and direct application to flooded paddy fields

INVENTOR(S): Fujita, Shigeki; Takayanagi, Toru; Kato, Susumu

PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002154901	A2	20020528	JP 2000-353887	20001121
CN 1353932	A	20020619	CN 2001-138546	20011116
US 2002098984	A1	20020725	US 2001-987969	20011116
US 6703350	B2	20040309		

## PRIORITY APPLN. INFO.:

JP 2000-353887 A 20001121

AB The compns. contain pesticides supported on grain nuclei coated with water-soluble polymers or water-swellaable substances. The compns. are directly applied to flooded paddy fields at 20-2000 g/10 are. IBP (42.5 parts) was supported on 57.5 parts Na polyacrylate-coated pumice and the resulting composition was packaged in bags of water-soluble poly(vinyl alc.) films at 100 g/bag. The composition floated and uniformly spread over the water surface of a paddy.

IT 83055-99-6, Bensulfuron-methyl



RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(pesticides supported on coated grain nuclei for direct application to  
flooded paddy fields)

IT **5138-18-1D**, Sulfosuccinic acid, dialkyl esters, salts

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(surfactant; pesticides supported on coated grain nuclei for direct  
application to flooded paddy fields)

L14 ANSWER 5 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:122711 HCAPLUS  
DOCUMENT NUMBER: 136:146540  
TITLE: Floating type formulations of agricultural agents  
INVENTOR(S): Kamata, Yasuhiro; Innami, Haruki  
PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany  
SOURCE: PCT Int. Appl., 21 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002011538	A2	20020214	WO 2001-EP7947	20010710
WO 2002011538	A3	20020613		

W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR,  
CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG,  
KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ,  
PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA, AM,  
AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

JP 2002053405 A2 20020219 JP 2000-239324 20000808

AU 2001070626 A5 20020218 AU 2001-70626 20010710

PRIORITY APPLN. INFO.:

JP 2000-239324 A 20000808  
WO 2001-EP7947 W 20010710

AB Floating type formulations of agricultural agents contain active  
ingredients of agricultural agent, a porous carrier of which average particle  
diameter is in the range of 10 to 100  $\mu$ , a surfactant, a binder and a  
polymer of high water absorption. The formulations of the invention have  
low risk of running off of agricultural agents from a paddy field, due to  
excellent dispersion of the active ingredients of agricultural agents as  
well as quick sank of the carriers into the water after dispersion.

IT **126801-58-9, Ethoxysulfuron**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(floating type formulation of)

IT **5138-18-1D**, Butanedioic acid, sulfo-, ester

RL: MOA (Modifier or additive use); USES (Uses)  
(surfactant in floating type agricultural formulation)

L14 ANSWER 6 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:578597 HCAPLUS  
DOCUMENT NUMBER: 135:124156  
TITLE: Bactericide combinations in detergents  
INVENTOR(S): Elsmore, Richard; Houghton, Mark Phillip  
PATENT ASSIGNEE(S): Robert McBride Ltd., UK  
SOURCE: Brit. UK Pat. Appl., 53 pp.  
CODEN: BAXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2354771	A1	20010404	GB 1999-23253	19991001
PRIORITY APPLN. INFO.:			GB 1999-23253	19991001

AB The detergent comprises a bactericide in combination with an anionic, cationic, nonionic or amphoteric surfactant which has a C12-18 alkyl group as the longest chain attached to the hydrophilic moiety. Creduret 50 (hydrogenated ethoxylated castor oil) 50, citric acid 12, formalin 10, sodium alkyl benzene sulfonate (C12-20) alkyl 1, perfume white line 0.5, detergent enzyme savingase 0.2, and bactericide Pr 4-hydroxybenzoate 1.0 parts formed a detergent, showing reduction activity after contact 2.

IT 473-34-7 577-11-7 39354-45-5

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(bactericide combinations in detergents)

L14 ANSWER 7 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:338762 HCAPLUS

DOCUMENT NUMBER: 134:362292

TITLE: Methods of determining individual hypersensitivity to a pharmaceutical agent from gene expression profile

INVENTOR(S): Farr, Spencer

PATENT ASSIGNEE(S): Phase-1 Molecular Toxicology, USA

SOURCE: PCT Int. Appl., 222 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001032928	A2	20010510	WO 2000-US30474	20001103
WO 2001032928	A3	20020725		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-165398P P 19991105  
US 2000-196571P P 20000411

AB The invention discloses methods, gene databases, gene arrays, protein arrays, and devices that may be used to determine the hypersensitivity of individuals to a given agent, such as drug or other chemical, in order to prevent toxic side effects. In one embodiment, methods of identifying hypersensitivity in a subject by obtaining a gene expression profile of multiple genes associated with hypersensitivity of the subject suspected to be hypersensitive, and identifying in the gene expression profile of the subject a pattern of gene expression of the genes associated with hypersensitivity are disclosed. The gene expression profile of the subject may be compared with the gene expression profile of a normal individual and a hypersensitive individual. The gene expression profile of the subject that is obtained may comprise a profile of levels of mRNA or cDNA. The gene expression profile may be obtained by using an array of nucleic acid probes for the plurality of genes associated with hypersensitivity. The expression of the genes predetd. to be associated with hypersensitivity is directly related to prevention or repair of toxic damage at the tissue, organ or system level. Gene databases arrays and

apparatus useful for identifying hypersensitivity in a subject are also disclosed.

IT **64-77-7**, Tolbutamide **577-11-7**, Docusate sodium  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
 (methods of determining individual hypersensitivity to a pharmaceutical agent from gene expression profile)

L14 ANSWER 8 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:214937 HCAPLUS  
 DOCUMENT NUMBER: 134:233078  
 TITLE: Aqueous herbicide suspensions with improved storage stability  
 INVENTOR(S): Moriie, Koichi; Okawa, Yoshikazu  
 PATENT ASSIGNEE(S): Nippon Bayer Agrochem K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001081001	A2	20010327	JP 1999-259367	19990913
PRIORITY APPLN. INFO.:			JP 1999-259367	19990913
AB Herbicidal formulations contain $\geq 1$ water-insol. or poorly soluble herbicide, with average particle size 0.5-10 $\mu\text{m}$ , 1-30 weight %, glycerin 5-10 weight %, and water 50-85 weight % and an amount of surfactant sufficient to keep the herbicide(s) suspended; the viscosity at 25° ranges 90-500 mPa · s. Thus, a formulation containing <b>bensulfuron</b> Me 1.63, fentrazamide 4.13, Newkalgen FS 26 2.00, SAG 10 0.50, glycerin 10.00, 0.6N aqueous HCl solution 0.36, bentonite 1.00, 2% aqueous xanthan gum solution 9.00, and water 71.38 parts and a comparative formulation containing 10.00 parts propylene glycol in place of the glycerin were stored for 3 mo at 40°. The storage stability of the <b>sulfonylurea</b> compound was enhanced by adding glycerin.				
IT <b>83055-99-6</b> , <b>Bensulfuron</b> methyl				
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (aqueous herbicide suspensions with improved storage stability)				
IT <b>577-11-7</b> , Sodium dioctyl sulfo succinate				
RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses) (surfactant for aqueous herbicide suspensions with improved storage stability)				

L14 ANSWER 9 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:869562 HCAPLUS  
 DOCUMENT NUMBER: 134:38268  
 TITLE: Pesticidal suspoemulsions for application to rice paddies  
 INVENTOR(S): Hirokawa, Takashi; Tsukuda, Kazuaki  
 PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000344604	A2	20001212	JP 2000-86232	20000327

## PRIORITY APPLN. INFO.:

JP 1999-92823 A 19990331

AB Suspoemulsion formulations that do not adhere to crops and cause phytotoxicity and that have superior storage stability at low and high temps. and superior dispersivity and diffusivity in water and on the water surface contain water-insol. pesticide 0.1-30, water-insol. hydrocarbon solvent 0.1-50, water- and oil-insol. pesticide 0.1-30 weight, surfactant 1-15, aromatic vinyl resin 1-20, and water 1-96.8 weight parts. Thus, pyributicarb 10, benfuresate 8, diisopropyl naphthalene 38, sorbitan trioleate 0.6, and Soprophor BSU 1.0 weight parts were melt blended, then added to a mixture of sodium dioctyl sulfosuccinate 0.7, polyoxyethylene-polyoxypropylene block copolymer 1.0, propylene glycol 5.0, the preservative Besticide 1000 0.05, the antifoaming agent SM 5512 0.01 weight parts in 24.95 weight parts water and emulsified (3 min, 10,000 rpm) to obtain an emulsion. Next, 1.7 parts **imazosulfuron** were added to a solution of water 3.7, Soprophor BSU 0.05, sodium dioctyl sulfosuccinate 0.05, polyoxyethylene-polyoxypropylene block copolymer 0.05, and SM 5512 0.0 weight parts to obtain a suspension. Finally, the obtained emulsion 89.4, the suspension 5.6, and styrene-acrylic acid copolymer 5 parts were mixed to obtain a homogeneous suspoemulsion that completely controlled *Echinochloa crus-galli* without affecting rice growth.

IT **122548-33-8, Imazosulfuron**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(pesticidal suspoemulsions for application to rice paddies)

IT **577-11-7, Sodium dioctyl sulfosuccinate**

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(surfactant; pesticidal suspoemulsions for application to rice paddies)

IT **5138-18-1D, Sulfosuccinic acid, dialkyl derivs., salts**

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(surfactants; pesticidal suspoemulsions for application to rice paddies)

L14 ANSWER 10 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:817431 HCAPLUS

DOCUMENT NUMBER: 133:360023

TITLE: Agrochemical pesticide formulations for water surface application, and their manufacture

INVENTOR(S): Nishi, Yasushi; Sato, Atsushi; Goto, Toshio; Ito, Seiji

PATENT ASSIGNEE(S): Nippon Bayer Agrochem K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000319107	A2	20001121	JP 1999-350331	19991209
JP 2000319106	A2	20001121	JP 2000-144767	19991209
CN 1269135	A	20001011	CN 2000-108605	20000303

PRIORITY APPLN. INFO.:

JP 1999-55630 A 19990303

JP 1999-350331 A3 19991209

AB The formulations comprise (A) water-soluble polymer-coated calcined pumice having apparent d. <1 and particle size .apprx.500-1400  $\mu$ m as core particles and (B) powder comps. containing slightly water-soluble pesticides and surfactants containing dialkyl sulfosuccinate salts, wherein B is supported on A using surfactants containing polyoxyethylene sorbitan (or sorbitol) fatty acid esters. The formulations show good spreadability on water surface in

paddy fields. Shirasu balloon (69.00 weight parts) was coated with 3.60 weight parts poly(vinyl alc.), mixed with 9.80 weight parts polyoxyethylene sorbitan monooleate, coated with a powder composition comprising fentrazamide 11.60, Na dioctyl sulfosuccinate 2.00, and Na ligninsulfonate 4.00 weight parts, and sealed in a water-soluble poly(vinyl alc.) bag.

- IT **64902-72-3, Chlorsulfuron 74223-64-6, Metsulfuron-methyl 79277-27-3, Thifensulfuron-methyl 93697-74-6, Pyrazosulfuron-ethyl 94593-91-6, Cinosulfuron 104040-78-0, Flazasulfuron 120162-55-2, Azimsulfuron 135397-30-7, Halosulfuron**  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (agrochem. pesticides having pumice cores for water surface application)
- IT **83055-99-6, Bensulfuron-methyl 122548-33-8, Imazosulfuron**  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (agrochem. pesticides having pumice cores for water surface application)
- IT **577-11-7, Sodium dioctyl sulfosuccinate**  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (surfactant; agrochem. pesticides having pumice cores for water surface application)

L14 ANSWER 11 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2000:725436 HCAPLUS  
 DOCUMENT NUMBER: 133:301171  
 TITLE: Compositions and methods for improved delivery of ionizable hydrophobic therapeutic agents  
 INVENTOR(S): Chen, Feng-jing; Patel, Manesh V.  
 PATENT ASSIGNEE(S): Lipocine, Inc., USA  
 SOURCE: PCT Int. Appl., 99 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000059475	A1	20001012	WO 2000-US7342	20000316
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6383471	B1	20020507	US 1999-287043	19990406
EP 1165048	A1	20020102	EP 2000-916547	20000316
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			

PRIORITY APPLN. INFO.: US 1999-287043 A 19990406  
 WO 2000-US7342 W 20000316

- AB The present invention is directed to a pharmaceutical composition including a hydrophobic therapeutic agent having at least one ionizable functional group, and a carrier. The carrier includes an ionizing agent capable of ionizing the functional group, a surfactant, and optionally solubilizers, triglycerides, and neutralizing agents. The invention further relates to

a method of preparing such compns. by providing a composition of an ionizable hydrophobic therapeutic agent, an ionizing agent, and a surfactant, and neutralizing a portion of the ionizing agent with a neutralizing agent. The compns. of the invention are particularly suitable for use in oral dosage forms. A carrier containing concentrated phosphoric acid 0.025, Tween-20 0.3, Arlacel 186 0.2, sodium taurocholate 0.15, propylene glycol 0.3 g was formulated. Itraconazole was included in the carrier at 30 mg/mL for testing the stability of the itraconazole solution upon dilution in simulated gastric fluid.

IT 64-77-7, Tolbutamide 577-11-7, Docusate sodium  
1156-19-0, Tolazamide

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(pharmaceutical compns. containing hydrophobic therapeutic agents and carriers containing ionizing agents and surfactants and triglycerides)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 12 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:573601 HCAPLUS

DOCUMENT NUMBER: 133:173420

TITLE: Light, extruded pesticidal compositions containing a ceramic carrier for water surface application in paddy fields

INVENTOR(S): Takayanagi, Norikazu; Kimpapa, Masaomi; Suzuki, Munehiro

PATENT ASSIGNEE(S): American Cyanamid Company, USA

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047044	A1	20000817	WO 2000-US3073	20000207
W:				
AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:				
GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2000029833	A5	20000829	AU 2000-29833	20000207
AU 768396	B2	20031211		
BR 2000008120	A	20011106	BR 2000-8120	20000207
EP 1150562	A1	20011107	EP 2000-908506	20000207
EP 1150562	B1	20040428		
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002536385	T2	20021029	JP 2000-598004	20000207
NZ 513715	A	20030530	NZ 2000-513715	20000207
EG 22636	A	20030531	EG 2000-147	20000208
BG 105862	A	20020531	BG 2001-105862	20010831
ZA 2001007438	A	20021217	ZA 2001-7438	20010910

PRIORITY APPLN. INFO.: US 1999-248859 A 19990211  
WO 2000-US3073 W 20000207

AB The light, extruded compns. comprise a pesticide, a light, extrudable, ceramic carrier and at least one surface active agent, and, optionally, a mineral carrier and a binder. The compds. are used for applying pesticides to the water surface of paddy rice fields.

IT 83055-99-6, Bensulfuronmethyl 93697-74-6,  
 Pyrazosulfuronethyl 94593-91-6, Cinosulfuron  
 120162-55-2, Azimsulfuron 122548-33-8,  
 Imazosulfuron 126801-58-9, Ethoxysulfuron  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (herbicide in light, extruded pesticidal compns. containing ceramic carrier  
 for water surface application)

IT 577-11-7, Newkalgen EP 70G 5138-18-1D, Sulfosuccinic  
 acid, Dialkyl ether  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (surfactant in light, extruded pesticidal compns. containing ceramic  
 carrier for water surface application)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 13 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2000:452468 HCAPLUS  
 DOCUMENT NUMBER: 133:54843  
 TITLE: Controlled-release double-coated agrochemical granules  
 INVENTOR(S): Nishi, Yasushi; Hanaki, Katsuhiko  
 PATENT ASSIGNEE(S): Nippon Bayer Agrochem K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000186004	A2	20000704	JP 1998-365046	19981222
PRIORITY APPLN. INFO.:			JP 1998-365046	19981222

AB The controlled-release granules are manufactured by coating core particles of mineral materials with agrochems. (A) using a mixed solution of an poly(vinyl acetate) emulsion a surfactant, and further coating the coated particles with a composition containing agrochems. (B), bentonite, white carbon, and a binder using a mixed solution of H2O, an anionic polycarboxylic acid surfactant, and the surfactant used in the 1st coating. The agrochems. (A) may have water solubility  $\leq 100$  ppm at 20° and the agrochems. (B) have water solubility  $\leq 50$  ppm at 20°. The coating design suppresses rapid release of agrochems. (A) with higher water solubility and promotes release of agrochems. (B) with less water solubility Silica sand particles were spray-coated with an aqueous solution containing Na dioctyl sulfosuccinate (I) and poly(vinyl acetate), mixed with benfuracarb, dried, spray-coated with a mixture of Toxanon GR 31A (polycarboxylic acid), I, and H2O, and then mixed with a composition containing carpropamid, bentonite, white carbon, pumice powder, and sucrose to give double-coated granules. Dissoln. of agrochem. components from the granules were also examined

IT 577-11-7, Sodium dioctyl sulfosuccinate 5138-18-1D,  
 Sulfosuccinic acid, dialkyl esters 83055-99-6,  
 Bensulfuron-methyl  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (controlled-release double-coated agrochem. granules containing two  
 agrochems. in the different layers)

L14 ANSWER 14 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2000:259972 HCAPLUS  
 DOCUMENT NUMBER: 132:293042  
 TITLE: Encapsulation of sensitive liquid components into a  
 matrix to obtain discrete shelf-stable particles  
 INVENTOR(S): Van Lengerich, Bernhard H.  
 PATENT ASSIGNEE(S): General Mills, Inc., USA  
 SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021504	A1	20000420	WO 1999-US20905	19991006
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG CA 2345815 AA 20000420 CA 1999-2345815 19991006 AU 9963872 A1 20000501 AU 1999-63872 19991006 EP 1119345 A1 20010801 EP 1999-951433 19991006 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO JP 2002527375 T2 20020827 JP 2000-575480 19991006 PRIORITY APPLN. INFO.: US 1998-103700P P 19981009 US 1998-109696P P 19981124 US 1999-233443 A 19990120 WO 1999-US20905 W 19991006				

AB A liquid encapsulant component which contains an active, sensitive encapsulant, such as a live microorganism or an enzyme dissolved or dispersed in a liquid plasticizer is admixed with a plasticizable matrix material. The matrix material is plasticizable by the liquid plasticizer and the encapsulation of the active encapsulant is accomplished at a low temperature and under low shear conditions. The active component is encapsulated and/or embedded in the plasticizable matrix component or material in a continuous process to produce discrete, solid particles. The liquid content of the liquid encapsulant component provides substantially all or completely all of the liquid plasticizer needed to plasticize the matrix component to obtain a formable, extrudable, cuttable, mixture or dough. Removal of liquid plasticizer prior to extrusion is not needed to adjust the viscosity of the mixture for formability. Release of an active component from the matrix may be delayed or controlled over time so that the active component is delivered when and where it is needed to perform its intended function. Controlled release, discrete, solid particles which contain an encapsulated and/or embedded component such as a heat sensitive or readily oxidizable pharmaceutically, biol., or nutritionally active component are continuously produced without substantial destruction of the matrix material or encapsulant.

IT 64-77-7, Tolbutamide 80-13-7, Halazone 128-49-4  
 , Docusate calcium 577-11-7, Docusate sodium 1156-19-0  
 , Tolazamide

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)  
 (encapsulation of sensitive liquid components into matrix to obtain discrete shelf-stable particles)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 15 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:106853 HCAPLUS

DOCUMENT NUMBER: 132:133617

TITLE: Agrochemical granules with improved water floatability and their preparation

INVENTOR(S): Sakano, Osamu; Oiawamoto, Masanori



PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000044402	A2	20000215	JP 1998-215316	19980730
PRIORITY APPLN. INFO.:			JP 1998-215316	19980730

AB The granules, useful for paddy fields, contain (A) active ingredients, (B) water-soluble carriers, (C) film-forming substances having lower dissoln. rate than B, (D) surfactants, and (E) thiourea, and are prepared by mixing C with a part of A, B, D, and E, kneading with H<sub>2</sub>O, kneading with residual ingredients, granulating, and drying. **Pyrazosulfuron-Et** 15, rhamsan gum 1, Na dioctyl sulfosuccinate 1, thiourea 2, and KCl 81 parts were mixed to give granules, which was sealed in a poly(vinyl alc.) package and put into H<sub>2</sub>O to show 100% floating after 2 h.

IT **93697-74-6, Pyrazosulfuron-ethyl**  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (agrochem. pesticide granules with improved floatability)

IT **577-11-7, Sodium dioctyl sulfosuccinate**  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (surfactant; agrochem. pesticide granules with improved floatability)

L14 ANSWER 16 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2000:79593 HCAPLUS  
 DOCUMENT NUMBER: 132:89487  
 TITLE: Serial weeding composition for rice seedling field and paddy field  
 INVENTOR(S): Cao, Yongsong; Nie, Siqiao; Liu, Weidong; Luo, Zhenli; Long, Shengyou; Yang, Xiaoming; Zhu, Ruilin; Ye, Jinxia  
 PATENT ASSIGNEE(S): Hunan Inst. of Chemical Industry, Peop. Rep. China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 8 pp.  
 CODEN: CNXXEV  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Chinese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1181880	A	19980520	CN 1996-118409	19961112
PRIORITY APPLN. INFO.:			CN 1996-118409	19961112

AB Herbicides for paddy field are given. Because the use of fenclorim, the herbicides are safe agrochems. Several herbicidal compns. were given. The composition I is composed of **pyrazosulfuron-Et** or **bensulfuron-Me** 1, acetochlor 1-48, and fenclorim 1-40 part, preferably **pyrazosulfuron-Et** or **bensulfuron-Me** 1, acetochlor 2-25, and fenclorim 2-30 part. The composition II is composed of **pyrazosulfuron-Et** or **bensulfuron-Me** 1, metolachlor 0.5-50, and fenclorim 0.5-50 part, preferably **pyrazosulfuron-Et** or **bensulfuron-Me** 1, metolachlor 2-20, and fenclorim 2-20 part. The composition III is composed of bentazone 100, acetochlor or metolachlor 1-80, and fenclorim 1-80 part, preferably bentazone 100, acetochlor or metolachlor 3-60, and fenclorim 3-60 part. The composition IV is composed of MCPA 100, acetochlor or metolachlor 1-100, and fenclorim 1-100 part, preferably MCPA 100, acetochlor or metolachlor 5-50, and fenclorim 5-50 part. The composition V is composed of acetochlor or metolachlor 100 part, and fenclorim 1-100 part, preferably acetochlor or metolachlor 100 part, and

fencloirim 10-50 part. The herbicide is composed of the composition, solvent, adjuvant, and/or carrier, and/or surfactant, and/or antifreezing agent. The antifreezing agent is selected from urea, poly(vinyl alc.), glycol, propanediol, and glycerin; the carrier from kaolin, bentonite, terra alba, sepiolite, white black, zeolite, CaCO<sub>3</sub>, talc, gypsum, and clay, etc.; the solvent from benzene, toluene, xylene, and C1-4 alc.; and the adjuvant from cyclohexanone, DMF, dioxane, naphthalene, methylnaphthalene, DMSO, and EtOAc.

IT 577-11-7, Sodium dioctylsulfosuccinate 83055-99-6,

**Bensulfuron-methyl 93697-74-6, Pyrazosulfuron**  
-ethyl

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(serial weeding composition for rice seedling field and paddy field)

L14 ANSWER 17 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:728051 HCAPLUS

DOCUMENT NUMBER: 131:333421

TITLE: Agrochemical preparations for submerged application, their manufacture, and agrochemical powder compositions for the preparations

INVENTOR(S): Nishi, Yasushi; Kobayashi, Norihito; Gojima, Toshio; Ito, Seishi

PATENT ASSIGNEE(S): Nippon Bayer Agrochem K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11315004	A2	19991116	JP 1998-307793	19981015
CN 1231823	A	19991020	CN 1999-103434	19990304
PRIORITY APPLN. INFO.:			JP 1998-67659	19980304
			JP 1998-307793	19981015

AB The agrochem. preps., which smoothly transfer over the water surface and show controlled release of active ingredients, are manufactured by coating calcined pumice cores with apparent d. <1 and particle size 500-1400 µm with a powdery composition containing poorly water-soluble agrochems., dialkyl sulfosuccinate salts, ligninsulfonate salts, and optionally alkyl naphthalenesulfonate salts using a mixture of vegetable oils and surfactants. The powder composition may be further mixed with another agrochem. powder composition containing slightly or readily water-soluble agrochems., polyethylene, hydrophobic silica, and optionally liquid paraffins prior to coating. A mixture of soybean oil and polyoxyethylene hydrogenated castor oil was added dropwise to shirasu balloons in a pan coater. A powder mixture containing fentrazamide (70%) 11.60, Na dioctyl sulfosuccinate 2.00, and Na ligninsulfonate 4.00 parts was gradually fed to the pan coater to give powder preparation. The preparation (10 g) was packed in a PVA film bag (3 cm + 3 cm) and dropped into a 5 cm-depth water tank (74 cm + 120 cm). Concns. of fentrazamide after 1 h were almost constant everywhere in the water tank. Herbicidal effect of similarly manufactured preps. containing fentrazamide and **bensulfuron-Me** in rice paddy was also examined

IT 577-11-7 64902-72-3, **Chlorsulfuron**  
79277-27-3, **Thifensulfuron methyl** 79510-48-8,  
**Metsulfuron** 83055-99-6, **Bensulfuron-methyl**  
93697-74-6, **Pyrazosulfuron-ethyl** 94593-91-6,  
**Cinosulfuron** 104040-78-0, **Flazasulfuron**  
120162-55-2, **Azimsulfuron** 122548-33-8,  
**Imazosulfuron** 135397-30-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(manufacture of agrochem. preps. for submerged application by coating

shirasu with composition containing dialkylsulfosuccinates and ligninsulfonates using vegetable oil-surfactant mixture)

L14 ANSWER 18 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:65283 HCAPLUS  
DOCUMENT NUMBER: 130:178765  
TITLE: Herbicide aqueous suspensions and weed control in direct-seeded paddy rice with them  
INVENTOR(S): Yasui, Kazuomi; Goto, Toshio; Ito, Seiji; Isono, Kunihiro; Ohkawa, Kiichi  
PATENT ASSIGNEE(S): Nippon Bayer Agrochem K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11021204	A2	19990126	JP 1997-185980	19970627
PRIORITY APPLN. INFO.:			JP 1997-185980	19970627
AB The aqueous suspensions (viscosity 90-500 mPa-s at 25°) contain 0.5-60 weight% $\geq$ 1 water-insol. herbicide having median particle size 0.5-10 $\mu$ m, 30-97 weight% H <sub>2</sub> O, and surfactants. Weeds are controlled by application of the aqueous suspensions to the water surfaces of paddy fields simultaneous with or after seeding paddy rice. An aqueous suspension (viscosity 145 mPa-s at 25°) containing 6.0 weight% 1-(2-chlorophenyl)-4-(N-cyclohexyl-N-ethylcarbamoyl)-5(4H)-tetrazolinone (particle size 2.2 $\mu$ m), 0.15 weight% xanthan gum, surfactants, etc. was applied to paddy at 5 L/ha to show 100% control of Echinochloa crus-galli, Monochoria vaginalis. and broadleaf weeds, without damaging rice.				
IT 577-11-7D, Sodium dioctyl sulfosuccinate, esters with polyoxyalkylene alkylphenyl ethers, sodium salts RL: AGR (Agricultural use); MOA (Modifier or additive use); PRP (Properties); BIOL (Biological study); USES (Uses) (in stabilized water-insol. herbicide aqueous suspensions for weed control in direct-seeded paddy rice)				
IT 83055-99-6, Bensulfuron-methyl 122548-33-8, Imazosulfuron RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (stabilized water-insol. herbicide aqueous suspensions for weed control in direct-seeded paddy rice)				

L14 ANSWER 19 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:795405 HCAPLUS  
DOCUMENT NUMBER: 130:106468  
TITLE: Aqueous suspension herbicide compositions and control of weeds in paddy field using them  
INVENTOR(S): Yasui, Kazuomi; Goto, Toshio; Ito, Seiji; Isono, Kunihiro; Ogawa, Yoshikazu  
PATENT ASSIGNEE(S): Nippon Bayer Agrochem K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 10330202 A2 19981215 JP 1997-156033 19970530  
 PRIORITY APPLN. INFO.: JP 1997-156033 19970530

AB The compns. contain 0.5-60 weight%  $\geq$ 1 slightly water-soluble or water-insol. herbicides having medium particle size 0.5-10  $\mu$ m, 30-97 weight% H<sub>2</sub>O, and surfactants to keep the compns. in the suspended state, and show viscosity 90-500 mPa.s at 25°. Weeds in paddy field are controlled by applying the compns. just at the time when rice seedlings are transplanted. 1-(2-Chlorophenyl)-4-(N-cyclohexyl-N-ethylcarbamoyl)-5(4H)-tetrazolinone (4 parts) and 0.15 part xanthane gum were suspended in a mixture of ethylene glycol 10, Newkalgen FS 21 (a mixture of polyoxyalkylene alkylphenyl ether, Na dioctylsulfosuccinate, and isopropanol) 3, Preventol D2, SAG 10 (silicone oil emulsion) 0.5, and H<sub>2</sub>O 82.25 parts to give an aqueous suspension having medium particle size 2.2  $\mu$ m and viscosity 145 mPa.s at 25°. The suspension was uniformly dispersed in paddy water and showed excellent herbicidal activity without damage to rice.

IT **83055-99-6, Bensulfuron-methyl 122548-33-8, Imazosulfuron**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (aqueous suspension herbicide compns. having controlled medium particle size and viscosity for paddy field)

IT **577-11-7, Sodium dioctyl sulfosuccinate**

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)  
 (aqueous suspension herbicide compns. having controlled medium particle size and viscosity for paddy field)

L14 ANSWER 20 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:715982 HCAPLUS

DOCUMENT NUMBER: 130:21760

TITLE: Formulations of pesticides coated on wood particles for application to water surface

INVENTOR(S): Isono, Kunihito; Kobayashi, Norihito; Goto, Toshio

PATENT ASSIGNEE(S): Nippon Bayer Agrochem K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10291902	A2	19981104	JP 1998-21562	19980120
PRIORITY APPLN. INFO.:			JP 1997-48556	19970218

AB Agrochem. formulations for rice paddies powdered blends containing agrochems., alkyl naphthalenesulfonates, dialkyl sulfosuccinates, and lignosulfonates are coated on wood particles, with apparent sp. gr. of .apprx.0.21-0.25 and particle size of .apprx.800-3000  $\mu$ m, by use of spindle oil. The formulations may contain a filler such as urea. Thus, 1-(2-chlorophenyl)-4-(N-cyclohexyl-N-ethylcarbamoyl)-5(4H)-tetrazolinone 8.87, Me  $\alpha$ -(4,6-dimethoxypyrimidin-2-yl)carbamoylsulfamoyl-O-toluate 6.24, 1-(4,6-dimethoxypyrimidin-2-yl)-3-[1-methyl-4-(2-methyl-2H-tetrazol-5-yl)pyrazol-5-ylsulfonyl]urea 2.56, 1-( $\alpha$ , $\alpha$ -dimethylbenzyl)-3-(p-tolyl)urea 11.67, Na alkyl naphthalenesulfonate 2.00, Na dioctyl sulfosuccinate 5.02, Na lignosulfonate 4.04 parts by weight were ground, mixed, and added to a pan coater filled with 47.60 parts wood granules on which spindle oil (12.00 parts) had been dripped. The formulation was sealed in PVA film to prepare a solid formulation that spreads uniformly over the whole paddy and controls weeds such as Monochoria vaginalis well.

IT **83055-99-6 120162-55-2 122548-33-8**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (formulations of pesticides coated on wood particles for application to

water surface)  
 IT **577-11-7**, Sodium dioctyl sulfosuccinate **5138-18-1D**,  
 Sulfosuccinic acid, dialkyl derivs., salts  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (pesticide formulations coated on wood particles for use in rice  
 fields)

L14 ANSWER 21 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1998:548497 HCAPLUS  
 DOCUMENT NUMBER: 129:171860  
 TITLE: Solid formulations of **sulfonylurea**  
 herbicides  
 INVENTOR(S): Bratz, Matthias; Jager, Karl-Friedrich; Berghaus,  
 Rainer  
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 44 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9834482	A1	19980813	WO 1998-EP413	19980204
W: AL, AU, BG, BR, BY, CA, CN, CZ, EE, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MD, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TM, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9862133	A1	19980826	AU 1998-62133	19980204
ZA 9800896	A	19990804	ZA 1998-896	19980204
EP 955809	A1	19991117	EP 1998-904145	19980204
EP 955809	B1	20020515		
R: DE, ES, FR, GB, IT				
BR 9807183	A	20001031	BR 1998-7183	19980204
ES 2176961	T3	20021201	ES 1998-904145	19980204
RU 2203548	C2	20030510	RU 1999-118886	19980204
TW 533058	B	20030521	TW 1998-87101508	19980205
US 6559098	B1	20030506	US 1999-355743	19990804
PRIORITY APPLN. INFO.:			DE 1997-19704276 A	19970205
			WO 1998-EP413	W 19980204

OTHER SOURCE(S): MARPAT 129:171860  
 AB The invention relates to solid mixts. containing a **sulfonylurea**  
 herbicide, stabilized by a sulfate or sulfonate surfactant adjuvant.

IT **577-11-7**, Aerosol OT-B  
 RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL  
 (Biological study); USES (Uses)  
 (adjuvant in solid formulations of **sulfonylurea** herbicides)

IT **142469-14-5**  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (solid formulations of)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 22 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1998:442023 HCAPLUS  
 DOCUMENT NUMBER: 129:132560  
 TITLE: Floating formulations of pesticides coated on calcined  
 pumice core for easy spreading on rice paddies  
 INVENTOR(S): Isono, Kunihiro; Kamata, Yasuhiro; Kobayashi,  
 Norihito; Itsushima, Toshio  
 PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

DOCUMENT TYPE: CODEN: JKXXAF  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: 1 Japanese  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10182303	A2	19980707	JP 1997-286217	19971003
PRIORITY APPLN. INFO.:			JP 1996-311222	19961108

AB Pesticide formulations useful for rice paddies comprise powdered blends containing agrochems., alkylnaphthalenesulfonate, dialkyl sulfosuccinate, lignosulfonate, and optionally alkyl sulfate coated on a calcined pumice core of particle size .apprx.500-1400  $\mu$ m with apparent sp. gr. <1 with use of spindle oil. Thus, a powder was prepared by milling 1-(2-chlorophenyl)-4-(N-cyclohexyl-N-ethylcarbamoyl)-5(4H)-tetrazolinone, Me  $\alpha$ -(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-O-toluate, 1-(4,6-dimethoxypyrimidin-2-yl)-3-[1-methyl-4-(2-methyl-2H-tetrazol-5-yl)pyrazol-5-ylsulfonyl]urea, 1-( $\alpha,\alpha$ -dimethylbenzyl)-3-(p-tolyl)urea, Na alkylnaphthalenesulfonate, Na dioctyl sulfosuccinate, Na lignosulfonate, and urea. After spindle oil was dripped on shirasu balloons in a pan coater, the powdered blend was added to prepare an agrochem. formulation with the powder forming a uniform coating on the shirasu balloons.

IT **83055-99-6 120162-55-2 122548-33-8**  
 RL: AGR(Agricultural use); BIOL (Biological study); USES (Uses)  
 (floating pesticide formulations for rice paddies containing)

IT **577-11-7, Sodium dioctyl sulfosuccinate 5138-18-1D,**  
 Sulfosuccinic acid, dialkyl derivs., salts  
 RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL  
 (Biological study); USES (Uses)  
 (in manufacture of floating pesticide formulations for rice paddies with calcined pumice core)

L14 ANSWER 23 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1998:442022 HCAPLUS  
 DOCUMENT NUMBER: 129:157950  
 TITLE: Stable aqueous emulsified agrochemical suspensions and their manufacture  
 INVENTOR(S): Kadowaki, Atsu  
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10182302	A2	19980707	JP 1997-296644	19971029
PRIORITY APPLN. INFO.:			JP 1996-288364	19961030

AB Aqueous emulsified agrochem. suspensions that are stable during long-term storage at low or high temperature under violent shaking contain active ingredient, surfactant, polyvinyl alc., and protein. Such formulations may be manufactured by mixing (1) an emulsified liquid containing a liquid agrochem., water, and  $\geq 1$  constituent chosen from among protein, polyvinyl alc., and surfactant and (2) a suspension containing a solid agrochem., water, and  $\geq 1$  constituent chosen from among protein, polyvinyl alc., and surfactant. Thus, sodium caseinate 0.5, Poval PVA 210 0.5, Neocol YSK 0.1, ethylene glycol 8.0, Antifoam E 20 0.2, and Bu p-hydroxybenzoate 0.1 part were mixed in 42.8 parts water, and after addition of 36.9 parts liquid bensulide the mixture was emulsified. Sodium caseinate 1.5 and Antifoam E

20 0.2 parts were mixed in 38.9 parts water, 59.4 parts imazosulfuron was added, and a suspension was obtained by wet grinding the mixture. An aqueous emulsified suspension was obtained by mixing 90 parts of the emulsion and 10 parts of the suspension and stirring with a magnetic stirrer. The product did not form aggregates during storage at low temperature (-20°, 1 wk) or high temperature (40°, 1 mo) or during 3 h shaking at room temperature.

IT **122548-33-8, Imazosulfuron**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(stable aqueous emulsified agrochem. suspensions and their manufacture)

IT **577-11-7, Neocol YSK**

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)  
(stable aqueous emulsified agrochem. suspensions and their manufacture)

L14 ANSWER 24 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:293427 HCAPLUS

DOCUMENT NUMBER: 129:8597

TITLE: Embedding and encapsulation of controlled release particles

INVENTOR(S): Van Lengerich, Bernhard H.

PATENT ASSIGNEE(S): Van Lengerich, Bernhard H., USA

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9818610	A1	19980507	WO 1997-US18984	19971027
W: AU, CA, JP, NO, PL, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9749915	A1	19980522	AU 1997-49915	19971027
AU 744156	B2	20020214		
EP 935523	A1	19990818	EP 1997-912825	19971027
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002511777	T2	20020416	JP 1998-520558	19971027
EP 1342548	A1	20030910	EP 2003-10031	19971027
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
NO 9902036	A	19990428	NO 1999-2036	19990428
PRIORITY APPLN. INFO.:				
			US 1996-29038P	P 19961028
			US 1997-52717P	P 19970716
			EP 1997-912825	A3 19971027
			WO 1997-US18984	W 19971027

AB Controlled release, discrete, solid particles which contain an encapsulated and/or embedded component such as a heat sensitive or readily oxidizable pharmaceutically, biol., or nutritionally active component are continuously produced without substantial destruction of the matrix material or encapsulant. A release-rate controlling component is incorporated into the matrix to control the rate of release of the encapsulant from the particles. The addnl. component may be a hydrophobic component or a high water binding capacity component for extending the release time. The plasticizable matrix material, such as starch, is admixed with at least one plasticizer, such as water, and at least one release-rate controlling component under low shear mixing conditions to plasticize the plasticizable material without substantially destroying the at least one plasticizable material and to obtain a substantially homogeneous plasticized mass. The plasticizer content is substantially reduced and the temperature of the plasticized mass is substantially reduced.

prior to admixing the plasticized mass with the encapsulant to avoid substantial destruction of the encapsulant and to obtain a formable, extrudable mixture. The mixture is extruded through a die without substantial or essentially no expansion and cut into discrete, relatively dense particles. Release properties may also be controlled by precoating the encapsulant and/or coating the extruded particles with a film-forming component. An example of encapsulation of acetylcysteine is given using starch, polyethylene, glycerol monostearate, and vegetable oil.

IT **64-77-7**, Tolbutamide **80-13-7**, Halazone **128-49-4**  
 , Docusate calcium **577-11-7**, Docusate sodium **1156-19-0**  
 , Tolazamide

RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(embedding and encapsulation of controlled release particles)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 25 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:204341 HCAPLUS

DOCUMENT NUMBER: 128:305155

TITLE: Floating pesticide formulations for rice paddies

INVENTOR(S): Hasegawa, Taizo

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10081603	A2	19980331	JP 1997-190861	19970716
PRIORITY APPLN. INFO.:			JP 1996-189410	19960718

AB Agrochem. granules or tablets which float on the surface of flooded rice paddies and disintegrate so the active ingredient is dispersed uniformly comprise a min. amount of the active ingredient, a plastic powder with sp. gr. of  $\leq 1$ , and surfactant having high surface tension-lowering power and may contain a binder. Thus, after mixing 15 parts of water per 100 parts of formulation containing **imazosulfuron** 3.6, NBA-061 12.0, Cellogen 7A 3.0, Neocol YSK 10.0, Newkalgen WG 5 6.0, Newkalgen WG 6 2.0, and Sanwax 131P (polyethylene powder) to 100%, the formulation was granulated and dried, and the granules obtained were coated with PVA film. When dropped into a petri dish filled with water, the granules disintegrated in 10 min and spread over the water; there was no precipitation

IT **577-11-7**  
 RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)  
 (floating pesticide formulations containing surfactant and plastic powder for rice paddies)

IT **83055-99-6 122548-33-8, Imazosulfuron**  
 RL: AGR (Agricultural use); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
 (floating pesticide formulations containing surfactant and plastic powder for rice paddies)

L14 ANSWER 26 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:259849 HCAPLUS

DOCUMENT NUMBER: 126:234740

TITLE: Stabilized granular **flazasulfuron** herbicidal composition

INVENTOR(S): Maeda, Masaru

PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan



SOURCE: Eur. Pat. Appl., 11 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 764404	A1	19970326	EP 1996-306702	19960916
EP 764404	B1	20010816		
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5830827	A	19981103	US 1996-712514	19960913
AT 204133	E	20010915	AT 1996-306702	19960916
ES 2159690	T3	20011016	ES 1996-306702	19960916
PT 764404	T	20011130	PT 1996-306702	19960916
JP 09143015	A2	19970603	JP 1996-269277	19960918
GR 3037055	T3	20020131	GR 2001-401927	20011030

PRIORITY APPLN. INFO.: JP 1995-269469 A 19950921

AB A granular herbicidal composition which comprises **flazasulfuron** or a salt thereof as a herbicidal active ingredient, together with a chemical stabilizer and a carrier. The stabilizer is a dialkylsulfosuccinate and/or benzoate.

IT **104040-78-0, Flazasulfuron**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (stabilized granular **flazasulfuron** herbicidal composition)

IT **577-11-7, Sodium dioctylsulfosuccinate 5138-18-1D, Sulfosuccinic acid, dialkyl derivs. 121183-10-6, Newkalgen EX 70**

RL: MOA (Modifier or additive use); USES (Uses)  
 (stabilized granular **flazasulfuron** herbicidal composition)

L14 ANSWER 27 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:392056 HCAPLUS

DOCUMENT NUMBER: 125:79408

TITLE: Herbicide composition with adjuvant comprising acidulated soap stock

INVENTOR(S): Farr, Jennifer; Lee, Phillip K.

PATENT ASSIGNEE(S): Central Soya Co., Inc., USA

SOURCE: U.S., 9 pp., Cont. of U.S. Ser. No. 947, 343, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5521144	A	19960528	US 1994-229999	19940419

PRIORITY APPLN. INFO.: US 1992-947343 19920918

AB An adjuvant composition for use in a pesticide formulation that is applied to a substrate comprises acidulated soap stock. A surfactant and/or mixed tocopherols may be added to the adjuvant. The adjuvant increases the efficacy of **sulfonylurea** herbicides. Thus, a 4:1 mixture of acid oil and a surfactant (alkylphenol ethoxylate) was tank mixed at 1.0% with **nicosulfuron** and applied to Johnson grass (*Sorghum halepense*) and giant foxtail (*Setaria faberii*) at 1.5 g ai/A. After 14 days, visual injury was 73 and 93% for Johnson grass and giant foxtail treated with herbicide containing the adjuvant, whereas no injury was observed with herbicide not containing adjuvant.

IT **79277-67-1, Thifensulfuron 111991-09-4, Nicosulfuron 113036-87-6, Primisulfuron**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(acidulated soap stock-containing adjuvants for formulations of herbicide with improved efficacy)

IT **5138-18-1D**, Sulfosuccinic acid, derivs.

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(adjuvant for pesticide formulation containing acidulated soap stock and)

L14 ANSWER 28 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:347091 HCAPLUS

DOCUMENT NUMBER: 122:125968

TITLE: Herbicide suspensions for rice paddies

INVENTOR(S): Maruyama, Toshiki; Kaji, Takashi

PATENT ASSIGNEE(S): Mitsubishi Petrochemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

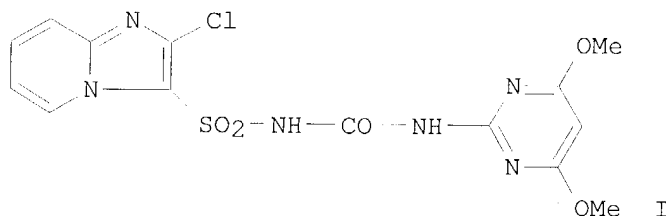
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06321713	A2	19941122	JP 1993-106780	19930507
PRIORITY APPLN. INFO.: GI			JP 1993-106780	19930507



AB A herbicide suspension that dissolves readily in water in rice paddies consists of a **sulfonylurea** derivative (I), a surfactant, dihydrogen potassium phosphate and a thickening agent (e.g., NaH<sub>2</sub>PO<sub>4</sub>). The composition is stable in storage for a long time at low as well as high temperature

IT **83055-99-6 93697-74-6 94593-91-6**  
**122548-33-8**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(in herbicide suspension for rice paddies)

IT **128-49-4**, Calcium dioctyl sulfosuccinate

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(surfactant; in herbicide suspension for rice paddies)

L14 ANSWER 29 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:48147 HCAPLUS

DOCUMENT NUMBER: 120:48147

TITLE: Solid pesticide preparations containing surfactants, for paddy.

INVENTOR(S): Matsumoto, Naoki; Koko, Toshuki; Kawashima, Mitsuo; Kasai, Yutaka; Shirai, Juta; Suzuki, Koichi

PATENT ASSIGNEE(S): Nissan Chemical Ind Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05255002	A2	19931005	JP 1992-55367	19920313
PRIORITY APPLN. INFO.:			JP 1992-55367	19920313
AB Solid pesticide preps., applied to paddy at $\leq 1500$ g/10 are, contain 5-30 weight% surfactants. <b>Pyrazosulfuron-Et</b> 0.3, oxadiazon 6.0, Na dialkylsulfosuccinate 1.5, Na tripolyphosphate 2.0, polyoxyethylene alkyl sulfate salt 4.0, bentonite 30, clay 56.2, and H <sub>2</sub> O 15 weight parts were kneaded and made into granules, which (50 g) were packaged in a PVA film. The preparation (at 2 packages/are) totally controlled <i>Echinochloa crus-galli</i> and <i>Scirpus juncoides</i> , with no damage to rice.				
IT <b>5138-18-1D</b> , Sulfosuccinic acid, alkyl derivs., salts RL: BIOL (Biological study) (solid pesticide preps. containing, as surfactants, for paddy)				
IT <b>93697-74-6</b> , <b>Pyrazosulfuron-ethyl</b> RL: BIOL (Biological study) (solid preps. containing surfactants and, for paddy)				

L14 ANSWER 30 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1994:2806 HCAPLUS  
 DOCUMENT NUMBER: 120:2806  
 TITLE: Water-soluble pesticidal composition containing a semisulfosuccinate derivative  
 INVENTOR(S): Bramatti, Valerio; Marchetto, Antonio  
 PATENT ASSIGNEE(S): Rhone-Poulenc Geronazzo S.p.A., Italy  
 SOURCE: Eur. Pat. Appl., 10 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 569264	A1	19931110	EP 1993-401004	19930416
EP 569264	B1	19961106		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
FR 2690812	A1	19931112	FR 1992-5520	19920505
AT 144880	E	19961115	AT 1993-401004	19930416
ES 2095595	T3	19970216	ES 1993-401004	19930416
AU 9338265	A1	19931111	AU 1993-38265	19930428
AU 670580	B2	19960725		
JP 07089802	A2	19950404	JP 1993-124759	19930430
JP 2882596	B2	19990412		
BR 9301747	A	19931116	BR 1993-1747	19930504
PRIORITY APPLN. INFO.:			FR 1992-5520	19920505
AB Water-soluble comps. comprise a pesticide or herbicide, preferably glyphosate or its salts, and a semisulfosuccinate RO(AO) <sub>n</sub> COR1 [R = C13-20 alkyl; R1 = CH(SO <sub>3</sub> -M1)CH <sub>2</sub> COO-M or CH <sub>2</sub> CH(SO <sub>3</sub> -M)COO-M; M, M1 = H, alkali metal, alkaline-earth metal, NH <sub>4</sub> ; A = C2-4 alkylene; n = 1-10]. Unlike the conventional ethoxylated amines used for these formulations, the semisulfosuccinates are nontoxic, biodegradable, and compatible with many pesticides.				
IT <b>5138-18-1D</b> , Sulfosuccinic acid, derivs. RL: BIOL (Biological study) (glyphosate salt formulations containing)				

L14 ANSWER 31 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1993:207562 HCAPLUS  
 DOCUMENT NUMBER: 118:207562  
 TITLE: Wettable powder herbicides for paddy.  
 INVENTOR(S): Suzuki, Toshikazu; Maeda, Yasuhiro; Watanabe, Tsukasa;  
 Yamada, Yuji  
 PATENT ASSIGNEE(S): Sds Biotech Corp, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05017305	A2	19930126	JP 1991-188237	19910703
PRIORITY APPLN. INFO.:			JP 1991-188237	19910703
AB The title herbicides, containing active ingredients and surfactants, are directly applied to water-filled paddy, at transplanting. Spreadability and dispersibility of the active ingredients are improved. A granular wettable powder was prepared from dymron 21, radiolite 200 65, Newkalgen RX-B (Na ligninsulfonate) 10, and Newkalgen EX-70 (Na dioctylsulfosuccinate) 4 weight parts. The wettable powder was applied to water surface of paddy, in a pot experiment, at 2 kg/10 are, at 3 days after transplantation, to show no damage on rice after 15 days.				
IT 83055-99-6, Bensulfuron-methyl 93697-74-6, Pyrazosulfuron-ethyl RL: BIOL (Biological study) (herbicidal wettable powders containing surfactants and, for paddy)				
IT 577-11-7, Airrol CT1 RL: BIOL (Biological study) (herbicidal wettable powders containing, for paddy)				

L14 ANSWER 32 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1992:464842 HCAPLUS  
 DOCUMENT NUMBER: 117:64842  
 TITLE: Herbicide granules containing **sulfonylureas**, calcium carbonate, and dialkyl sulfosuccinates, for paddy.  
 INVENTOR(S): Kasai, Yutaka; Kawashima, Mitsuo  
 PATENT ASSIGNEE(S): Nissan Kagaku Kogyo K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04066509	A2	19920302	JP 1990-172410	19900629
PRIORITY APPLN. INFO.:			JP 1990-172410	19900629
OTHER SOURCE(S): MARPAT 117:64842				
AB Hydrophobic herbicidal granules, which disintegrate in water, contain <b>sulfonylureas</b> , mineral fine powders, mainly CaCO <sub>3</sub> , ROCOCH <sub>2</sub> CH(CO <sub>2</sub> R)SO <sub>3</sub> X [I; R = C <sub>11</sub> -20 (branched) alkyl; X = H, monovalent metal, NH <sub>3</sub> ], and optional herbicides effective against Echinochloa crus-galli. The granules are manufactured by extrusion. N-[(4,6-Dimethoxypyrimidin-2-yl)aminocarbonyl]-4-ethoxycarbonyl-1-methylpyrazole-5-sulfonamide 7, paraffin wax 100, and CaCO <sub>3</sub> 100 weight parts were made into fine particles, which (2.07 weight parts) were mixed with CaCO <sub>3</sub> 79.93,				

bentonite 12, I (R = C13H27, X = Na) 1, and Na ligninsulfonate 5 weight parts and made into granules. The granules did not float on water.

IT **2673-22-5 27205-20-5**

RL: BIOL (Biological study)  
(herbicide granule containing **sulfonylureas** and calcium carbonate and, for paddy)

IT **83055-99-6 93697-74-6**

RL: BIOL (Biological study)  
(herbicide granules containing calcium carbonate and sulfosuccinates and, for paddy)

L14 ANSWER 33 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1991:530089 HCAPLUS

DOCUMENT NUMBER: 115:130089

TITLE: Pesticidal dispersible granules containing solid wetting agent

INVENTOR(S): Roechling, Hans; Kocur, Jean; Albrecht, Konrad

PATENT ASSIGNEE(S): Hoechst A.-G., Germany

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 413267	A1	19910220	EP 1990-115360	19900810
EP 413267	B1	19971112		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
DE 3926800	A1	19910221	DE 1989-3926800	19890814
AT 160071	E	19971115	AT 1990-115360	19900810
ES 2110954	T3	19980301	ES 1990-115360	19900810
AU 9060925	A1	19910214	AU 1990-60925	19900813
AU 648038	B2	19940414		
ZA 9006382	A	19910529	ZA 1990-6382	19900813
JP 03193702	A2	19910823	JP 1990-211760	19900813
DD 297055	A5	19920102	DD 1990-343417	19900813

PRIORITY APPLN. INFO.: DE 1989-3926800 19890814

AB Water-dispersible granules contain pesticide 10-90, ≥1 solid wetting agent (alkanesulfonate, alkyl sulfate, alkyl naphthalenesulfonate, etc.) 10-90, and additives (carrier, filler, binder, etc.) 0-50%. A formulation made of D,L-fenoxapropethyl (96.8%) 9.3, Hostapur OS (C14-19 Na olefinsulfonate) 33.45, defoamer SE 2 0.90, Hoe S 1494 (cresol-formaldehyde condensation product) 1.35, and water 55% by weight was granulated and spray-dried.

IT **74223-64-6, Granstar**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(water-dispersible granules of)

IT **5138-18-1D, alkyl derivs.**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(wetting agent, for water-dispersible pesticide granules)

L14 ANSWER 34 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1982:194591 HCAPLUS

DOCUMENT NUMBER: 96:194591

TITLE: Single extraction for the recovery of basic, neutral and weakly acidic drugs from greyhound dog urine

AUTHOR(S): Hill, Dennis W.; Kelley, Thomas R.; Matiuck, Sylvia W.; Langner, Karen J.; Phillips, Deborah E.

CORPORATE SOURCE: Coll. Agric. Natl. Resour., Univ. Connecticut, Storrs, CT, 06268, USA

SOURCE: Analytical Letters (1982), 15(B2), 193-204

CODEN: ANALBP; ISSN: 0003-2719  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Na dioctylsulfosuccinate [577-11-7] Was used as a counterion for extracting basic drugs from the urine of greyhound racing dogs at neutral pH; thus, allowing simultaneous extraction of weakly acidic drugs. The extraction solvent was 3:1 (volume/volume) CHCl<sub>3</sub>-2-propanol. The urine extraction residue was chromatographed (TLC) using (70:24:10) hexane-AcOH-toluene or (83:12:5) EtOAc-MeOH-NH<sub>4</sub>OH as the developing solvents.

IT 577-11-7

RL: BIOL (Biological study)  
 (extracting drugs from greyhound dog urine with, as counterion)

IT 64-77-7

RL: ANST (Analytical study)  
 (extraction of, from greyhound dog urine, paired-ion method for)

L14 ANSWER 35 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1981:538525 HCAPLUS

DOCUMENT NUMBER: 95:138525

TITLE: In vitro and in vivo availability of tolbutamide tablets

AUTHOR(S): El-Shattawy, H.; Kassem, A.; Abdel-All, M.; Fawzi, A.

CORPORATE SOURCE: Fac. Med., Al-Azhar Univ., Cairo, Egypt

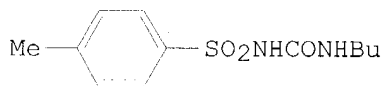
SOURCE: Scientia Pharmaceutica (1981), 49(2), 162-71

CODEN: SCPHA4; ISSN: 0036-8709

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

AB Directly compressed tolbutamide (I) [64-77-7] tablets had a faster dissoln. rate than those prepared by wet granulation. The bioavailability of I correlated with the dissoln. rate. Directly compressed I containing 0.4% dioctyl Na sulfosuccinate [577-11-7] showed a faster dissoln. rate than other formulations. Dissoln. rates of I tablets increased with addition of polyethylene glycols (PEG) in the following order: PEG 4000 > PEG 20,000 > PEG 6000. Addition of poly(vinylpyrrolidinone) [9003-39-8] also improved the dissoln. rates of I tablets.

IT 64-77-7

RL: BIOL (Biological study)  
 (tablets, bioavailability and solution rate of)

IT 577-11-7

RL: BIOL (Biological study)  
 (tolbutamide tablets bioavailability and solution rate in relation to)

L14 ANSWER 36 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1980:501393 HCAPLUS

DOCUMENT NUMBER: 93:101393

TITLE: A study on the weight variation test of tablets

AUTHOR(S): Kitazawa, Shikifumi; Johno, Ikuo; Obata, Hideo; Maeda, Atsushi; Mizugaki, Ichiro

CORPORATE SOURCE: Dep. Pharm., Kyoto Univ. Hosp., Kyoto, 606, Japan

SOURCE: Yakugaku Zasshi (1979), 99(12), 1168-75

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB Fifty-four brands of com., uncoated and coated tablets were selected at random and subjected to the weight variation test of the Japanese Pharmacopeia (J.P.IX). For comparison purposes, four formulated uncoated tablets, were included in this study. All uncoated tablets complied with the requirements of the J.P.IX. Variations in tablet weight, presented as standard deviation and/or range, increased with the average weight increase of the tablets. However, the variations were considerably less than the requirements. This suggests that the requirements should be updated since they do not adapt to present status of table formulations. More than 80% of the coated tablets complied with the requirements which are applied only to uncoated tablets in the J.P.IX. It was apparent that the variations in coated tablets were not as small as those of uncoated tablets; however, the fact that more than 80% of the coated tablets complied with the J.P. requirements suggests that some requirement should be established for the coated preps.

IT 64-77-7 577-11-7

RL: BIOL (Biological study)  
(tablets, weight variation test of)

L14 ANSWER 37 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1966:456140 HCAPLUS  
DOCUMENT NUMBER: 65:56140  
ORIGINAL REFERENCE NO.: 65:10434g-h,10435a  
TITLE: Compositions for reducing hypertension  
PATENT ASSIGNEE(S): Abbott Laboratories  
SOURCE: 3 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: Unavailable  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1033519		19660622	GB	

PRIORITY APPLN. INFO.: US 19631114

GI For diagram(s), see printed CA Issue.

AB Thiatriazoles of the formula I, where R is Ph, benzyl, alkylphenyl, alkoxyphenyl, or halophenyl, is mixed with a pharmaceutically acceptable carrier. For example, 60 g. I (R = p-methoxyphenyl) (II) is mixed with 260.72 g. milk sugar and passed through a 30-mesh screen. Acacia (4.80 g.) is dissolved in 25 ml. H<sub>2</sub>O and added to the first mixture. The wet mass is granulated through a 6-mesh screen, dried at 50° overnight, and ground to 20 mesh. Corn starch (38.4 g.), 10.52 g. talc, and 6.56 g. stearic acid are added to the dried granulation, passed through a 40-mesh screen, mixed thoroughly, and compressed into tablets containing 25 mg. each of II. When administered orally, rectally, or parenterally to animals, an immediate and prolonged drop in blood pressure results. Used intravenously, the dosage is 1-10 mg./kg. daily. Orally or rectally, the dosage varies from 10 to 60 mg./kg. daily.

IT 577-11-7, Succinic acid, sulfo-, bis(2-ethylhexyl) ester S-Na salt  
(blood sugar lowering by drug containing)

IT 64-77-7, Urea, 1-butyl-3-(p-tolylsulfonyl)- 1034-82-8,  
Urea, 1-cycloheptyl-3-(p-tolylsulfonyl)-  
(pharmaceutical containing, for lowering of blood sugar)

L14 ANSWER 38 OF 38 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1948:38881 HCAPLUS  
DOCUMENT NUMBER: 42:38881  
ORIGINAL REFERENCE NO.: 42:8253e-i  
TITLE: Leptospira icterohaemorrhagiae. IV. Survival in water and sewage: destruction in water by halogen compounds, synthetic detergents, and heat  
AUTHOR(S): Chang, Shih Lu; Buckingham, M.; Taylor, M. P.

CORPORATE SOURCE: Harvard Univ.  
SOURCE: Journal of Infectious Diseases (1948), 82, 256-66  
CODEN: JIDIAQ; ISSN: 0022-1899  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable  
AB cf. C.A. 41, 7444i. Culture-produced *L. icterohaemorrhagiae* survived in river water 8-9 days at 5-6°, 5-6 days at 25-27°, and 3-4 days at 31-32°. In tap water without bacterial contamination they survived over 4 weeks at pH 7 when a small amount of food substance was present. In tap water with air contamination, the survival period was cut almost in half. Both low and high pH values are detrimental. In sewage, the survival time was 12-14 hrs.; it rose to 7-8 days when the sewage was diluted with tap H2O to 1% of its strength. The survival in sea water was 18-20 hrs. when the salt concentration was 2.2%. Elemental I destroyed all the *Leptospira* in H2O containing 3 million organisms per ml. in 1 min. when the residual I was 5 parts per million, in 5 min. when the residual I was between 0.5 and 2 parts per million, and in 10 min. when the residual I was 0.7 parts per million. Halazone at pH 7 and 25-26° killed all the *Leptospira* in 1 min. when the residual Cl2 was 3.5 parts per million and in 3 min. when the residual Cl2 was 1 part per million. At pH 5.0 and 25-26° Ca(OCl)2 killed all the *Leptospira* in 1 and 3 mins. when the Cl2 residuals were 0.5 and 0.3 parts per million, resp. At pH 8.0, the leptospiricidal residuals for the 1- and 3-min. contacts were 6 and 3 parts per million, resp. Ceepryn, Fixanol, and Sapamine at pH 7 and 25-26° killed all the *Leptospira* in 5, 10, 30, and 60 min. at average doses of 30, 20, 10, and 7 parts per million, resp. Aerosol-OT and Tergitol-4T did not kill all organisms at these contact times until dosages of 1,500, 1,250, 1,000, and 1,000 parts per million were reached. The thermal death points of the *Leptospira* in distilled H2O were 25-30 min. at 45°, 5-10 min. at 50°, 10 sec. at 60°, and less than 10 sec. at 70°. Thus *L. icterohaemorrhagiae* is less resistant to disinfectants and heat than are most of the nonsporulating pathogenic bacteria.  
IT 80-13-7, Halazone 577-11-7, Aerosol OT  
(*Leptospira icterohaemorrhagiae* destruction by)

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DICTIONARY FILE UPDATES: 8 JUN 2004 HIGHEST RN 690955-30-7

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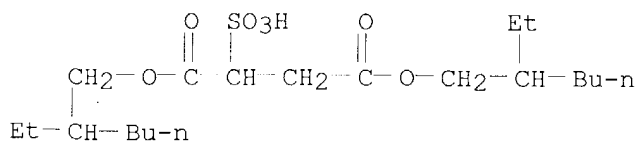
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L16 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN  
RN **121183-10-6** REGISTRY  
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt, mixt.  
with sodium benzoate (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzoic acid, sodium salt, mixt. contg. (9CI)  
OTHER NAMES:  
CN Monawet MO 85P  
CN Newkalgen EX 70  
DR 155328-19-1  
MF C20 H38 O7 S . C7 H6 O2 . 2 Na  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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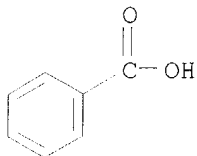
CRN 577-11-7 (10041-19-7)  
CMF C20 H38 O7 S . Na



● Na

CM 2

CRN 532-32-1 (65-85-0)  
CMF C7 H6 O2 . Na

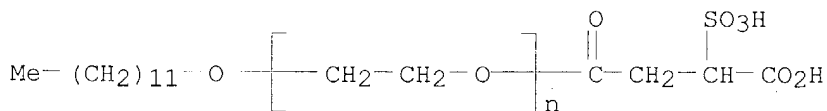


● Na

5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:293358  
REFERENCE 2: 127:30414  
REFERENCE 3: 126:234740  
REFERENCE 4: 123:289777  
REFERENCE 5: 111:26952

L16 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN  
RN **39354-45-5** REGISTRY  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(3-carboxy-1-oxo-3-sulfopropyl)- $\omega$ -(dodecyloxy)-, disodium salt (9CI) (CA INDEX NAME)  
DR 170809-72-0  
MF (C2 H4 O)<sub>n</sub> C16 H30 O7 S . 2 Na  
CI PMS  
PCT Polyether  
LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, DIOGENES, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, PROMT, RTECS\*, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)  
DT.CA Caplus document type: Conference; Journal; Patent  
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)  
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)



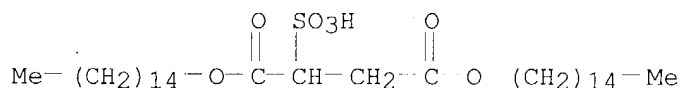
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56 REFERENCES IN FILE CA (1907 TO DATE)  
56 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:311467  
REFERENCE 2: 135:124156

REFERENCE 3: 133:198390  
 REFERENCE 4: 133:139910  
 REFERENCE 5: 131:117728  
 REFERENCE 6: 130:316425  
 REFERENCE 7: 130:82878  
 REFERENCE 8: 129:249974  
 REFERENCE 9: 129:101860  
 REFERENCE 10: 127:253195

L16 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN **27205-20-5** REGISTRY  
 CN Butanedioic acid, sulfo-, 1,4-dipentadecyl ester, sodium salt (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Succinic acid, sulfo-, dipentadecyl ester, sodium salt (8CI)  
 MF C34 H66 O7 S . Na  
 LC STN Files: CA, CAPLUS  
 DT.CA Caplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study)  
 RL.NP Roles from non-patents: PRP (Properties)  
 CRN (119495-55-5)



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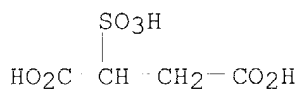
4 REFERENCES IN FILE CA (1907 TO DATE)  
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 117:145360  
 REFERENCE 2: 117:64842  
 REFERENCE 3: 109:33866  
 REFERENCE 4: 99:219222

L16 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN **5138-18-1** REGISTRY  
 CN Butanedioic acid, sulfo- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Succinic acid, sulfo- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN 2-Sulfosuccinic acid  
 CN Sulfosuccinic acid  
 FS 3D CONCORD  
 DR 55904-24-0, 181719-29-9  
 MF C4 H6 O7 S  
 CI COM

LC STN Files: BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHM, DDFU, DRUGU, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, PROMT, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)  
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)  
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1307 REFERENCES IN FILE CA (1907 TO DATE)  
 996 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1309 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:362998  
 REFERENCE 2: 140:341003  
 REFERENCE 3: 140:324936  
 REFERENCE 4: 140:323066  
 REFERENCE 5: 140:309488  
 REFERENCE 6: 140:305809  
 REFERENCE 7: 140:305539  
 REFERENCE 8: 140:298915  
 REFERENCE 9: 140:275767  
 REFERENCE 10: 140:258647

L16 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN

RN 2673-22-5 REGISTRY

CN Butanedioic acid, sulfo-, 1,4-ditridecyl ester, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Succinic acid, sulfo-, 1,4-ditridecyl ester, sodium salt (8CI)  
 CN Succinic acid, sulfo-, ditridecyl ester, S-sodium salt (7CI)  
 CN Succinic acid, sulfo-, ditridecyl ester, sodium salt (6CI)

OTHER NAMES:

CN Aerosol TR  
 CN Aerosol TR 70  
 CN Aerosol TR-AM  
 CN Bis(tridecyl) sodiosulfosuccinate  
 CN Bis(tridecyl) sodium sulfosuccinate  
 CN Ditridecyl sodiosulfosuccinate  
 CN Ditridecyl sodium sulfosuccinate  
 CN Monawet MT  
 CN Monawet MT 70  
 CN NSC 7783  
 CN Pelex TRB  
 CN Plex TR  
 CN Sodium 1,4-ditridecyl sulfosuccinate  
 CN Sodium bis(tridecyl) sulfosuccinate  
 CN Sodium ditridecyl sulfosuccinate  
 CN Sodium tridecyl sulfosuccinate

CN TR 70  
 DR 52624-82-5  
 MF C30 H58 O7 S . Na  
 CI COM

LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, IFICDB,  
 IFIPAT, IFIUDB, NIOSHTIC, TOXCENTER, USPAT2, USPATFULL

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

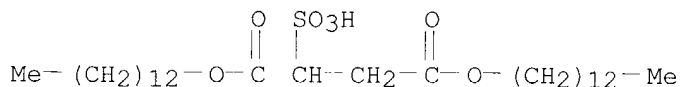
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report

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 NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); OCCU (Occurrence); PROC (Process); PRP (Properties); USES  
 (Uses); NORL (No role in record)

CRN (18271-58-4)



● Na

131 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

131 REFERENCES IN FILE CAPLUS (1907 TO DATE)

5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:391878

REFERENCE 2: 138:108708

REFERENCE 3: 137:346926

REFERENCE 4: 137:34131

REFERENCE 5: 136:342204

REFERENCE 6: 136:326376  
 REFERENCE 7: 135:79264  
 REFERENCE 8: 135:29821  
 REFERENCE 9: 134:87676  
 REFERENCE 10: 134:72910

L16 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN

RN 577-11-7 REGISTRY

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI)  
 (CA INDEX NAME)

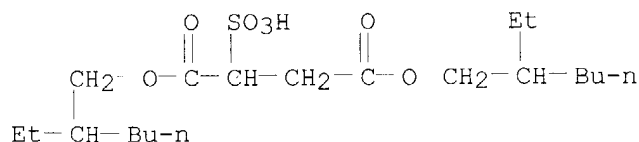
OTHER CA INDEX NAMES:

CN Aerosol OT-B (6CI)

OTHER NAMES:

CN 1,4-Bis(2-ethylhexyl) sodium sulfosuccinate  
 CN Adekacol EC 8600  
 CN Aerosol A 501  
 CN Aerosol AOT  
 CN Aerosol GPG  
 CN Aerosol OT  
 CN Aerosol OT 100  
 CN Aerosol OT 70PG  
 CN Aerosol OT 75  
 CN Aerosol OT 75PG  
 CN Aerosol OT 94  
 CN Aerosol OT-A  
 CN Aerosol OT-S  
 CN Airrol CT 1  
 CN Airrol CT 1L  
 CN Airrol OP  
 CN Alcopol O  
 CN Alkasurf SS-O 75  
 CN Alphasol OT  
 CN AOT  
 CN AOT 100  
 CN AOT I  
 CN Astrowet 608  
 CN Astrowet O 70PG  
 CN Astrowet O 75  
 CN B 80  
 CN Berol 478  
 CN Bis(2-ethylhexyl) S-sodium sulfosuccinate  
 CN Bis(2-ethylhexyl) sodiosulfosuccinate  
 CN Bis(2-ethylhexyl) sodium sulfosuccinate  
 CN Bis(2-ethylhexyl) sulfosuccinate sodium salt  
 CN Carabon DA 72  
 CN Celanol DOS 65  
 CN Celanol DOS 75  
 CN Colace  
 CN Comfolax  
 CN Complemix  
 CN Constonate  
 CN Coprol  
 CN Coprola  
 CN Correctol Stool Softener Laxative  
 CN Defilin  
 CN DESS  
 CN Di(2-ethylhexyl) sulfosuccinate sodium salt  
 CN Di-2-ethylhexyl sodium sulfosuccinate  
 CN Dialose

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 75418-10-9, 78207-03-1, 52624-44-9, 53023-94-2, 110162-65-7, 201816-76-4,  
 202352-75-8, 209453-97-4  
 MF C20 H38 O7 S . Na  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS,  
 BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,  
 CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM\*, DIOGENES,  
 DRUGU, EMBASE, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA,  
 MRCK\*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, PROUSDDR, PS, RTECS\*, TOXCENTER,  
 USAN, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*, WHO  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 DT.CA Caplus document type: Conference; Dissertation; Journal; Patent;  
 Preprint; Report  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
 MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC  
 (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);  
 NORL (No role in record)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
 study); PREP (Preparation); PROC (Process); PRP (Properties); USES  
 (Uses)  
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 study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU  
 (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT  
 (Reactant or reagent); USES (Uses); NORL (No role in record)  
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical  
 study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP  
 (Properties); RACT (Reactant or reagent); USES (Uses)  
 CRN (10041-19-7)



● Na

7243 REFERENCES IN FILE CA (1907 TO DATE)  
 39 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 7257 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 16 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:395551  
 REFERENCE 2: 140:394816  
 REFERENCE 3: 140:392885  
 REFERENCE 4: 140:392673

REFERENCE 5: 140:391878  
 REFERENCE 6: 140:387725  
 REFERENCE 7: 140:383298  
 REFERENCE 8: 140:383050  
 REFERENCE 9: 140:381202  
 REFERENCE 10: 140:381079

L16 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN

RN 128-49-4 REGISTRY

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, calcium salt (9CI)  
 (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Succinic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, calcium salt (8CI)

OTHER NAMES:

CN Bis(2-ethylhexyl) calcium sulfosuccinate

CN Bis(2-ethylhexyl) sulfosuccinic acid calcium salt

CN Calcium bis(2-ethylhexyl) sulfosuccinate

CN Calcium di-2-ethylhexyl sulfosuccinate

CN Calcium dioctyl sulfosuccinate

CN Dioctyl calcium sulfosuccinate

CN Docusate calcium

CN Doxical

CN Sulfosuccinic acid, bis(2-ethylhexyl) ester, calcium salt

CN Surfak

MF C20 H38 O7 S . 1/2 Ca

LC STN Files: ADISNEWS, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAPLUS,  
 CHEMLIST, CIN, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB,  
 IPA, MRCK\*, PROMT, PS, TOXCENTER, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*

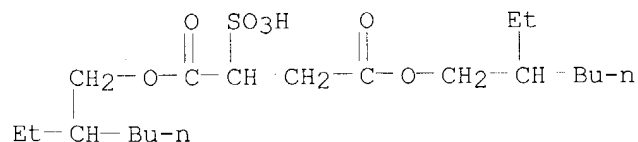
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
 PREP (Preparation); PROC (Process); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
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 (Reactant or reagent); USES (Uses)

CRN (10041-19-7)



● 1/2 Ca

101 REFERENCES IN FILE CA (1907 TO DATE)

101 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:205143

REFERENCE 2: 140:187383



REFERENCE 3: 140:151946  
 REFERENCE 4: 140:105290  
 REFERENCE 5: 140:99631  
 REFERENCE 6: 140:99630  
 REFERENCE 7: 140:99626  
 REFERENCE 8: 140:47538  
 REFERENCE 9: 139:73737  
 REFERENCE 10: 137:11003

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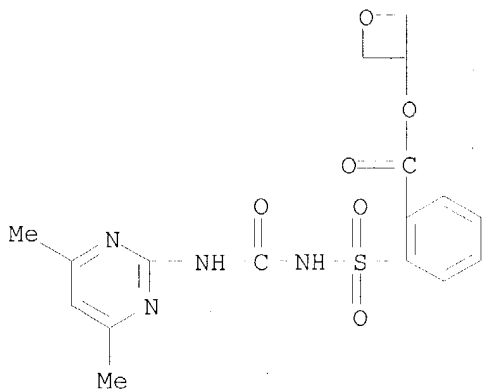
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 L17 30 S L15 NOT L16

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L17 ANSWER 1 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN **144651-06-9** REGISTRY  
 CN Benzoic acid, 2-[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-, 3-oxetanyl ester (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN CGA 277476  
 CN EP-A 0496701  
 CN Expert  
 CN Oxasulfuron  
 MF C17 H18 N4 O6 S  
 CI COM  
 SR CA  
 LC STN Files: AGRICOLA, ANABSTR, BIOSIS, CA, CAPLUS, CEN, CHEMCATS, CHEMLIST, CIN, CSChem, DIOGENES, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL  
 DT.CA Caplus document type: Dissertation; Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)  
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

63 REFERENCES IN FILE CA (1907 TO DATE)  
 26 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 63 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:248744  
 REFERENCE 2: 140:141104  
 REFERENCE 3: 140:787  
 REFERENCE 4: 139:392486  
 REFERENCE 5: 139:334291  
 REFERENCE 6: 139:64821  
 REFERENCE 7: 139:18607  
 REFERENCE 8: 138:267210  
 REFERENCE 9: 138:267186  
 REFERENCE 10: 138:233416

L17 ANSWER 2 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **142469-14-5** REGISTRY

CN Benzenesulfonamide, N-[[[4-methoxy-6-(trifluoromethyl)-1,3,5-triazin-2-yl]amino]carbonyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN BAS 635

CN LAB 271272

CN Tritosulfuron

DR 257287-30-2

MF C13 H9 F6 N5 O4 S

CI COM

SR CA

LC STN Files: CA, CAPLUS, CBNB, TOXCENTER, USPAT2, USPATFULL

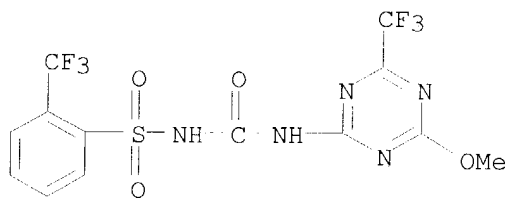
DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence); PROC (Process); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

57 REFERENCES IN FILE CA (1907 TO DATE)  
34 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
57 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:248744  
REFERENCE 2: 140:194906  
REFERENCE 3: 140:159049  
REFERENCE 4: 140:159047  
REFERENCE 5: 140:124047  
REFERENCE 6: 140:106955  
REFERENCE 7: 140:89300  
REFERENCE 8: 139:360355  
REFERENCE 9: 139:334322  
REFERENCE 10: 139:241692

L17 ANSWER 3 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **135990-29-3** REGISTRY

CN Benzoic acid, 2-[[[4-(dimethylamino)-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-yl]amino]carbonyl]amino]sulfonyl]-3-methyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Debut

CN Triflusulfuron

MF C16 H17 F3 N6 O6 S

CI COM

SR CAS Client Services

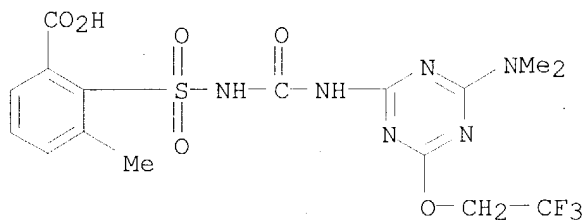
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, CA, CAPLUS, CBNB, TOXCENTER, USPAT2, USPATFULL

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

36 REFERENCES IN FILE CA (1907 TO DATE)  
12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
36 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:787  
REFERENCE 2: 139:225814  
REFERENCE 3: 139:145110  
REFERENCE 4: 139:64821  
REFERENCE 5: 138:267186  
REFERENCE 6: 138:68344  
REFERENCE 7: 138:34679  
REFERENCE 8: 137:274424  
REFERENCE 9: 137:221539  
REFERENCE 10: 136:290486

L17 ANSWER 4 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **135397-30-7** REGISTRY

CN 1H-Pyrazole-4-carboxylic acid, 3-chloro-5-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-1-methyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Halosulfuron

FS 3D CONCORD

MF C12 H13 Cl N6 O7 S

CI COM

SR CAS Client Services

LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CBNB, RTECS\*, TOXCENTER, USPAT2, USPATFULL

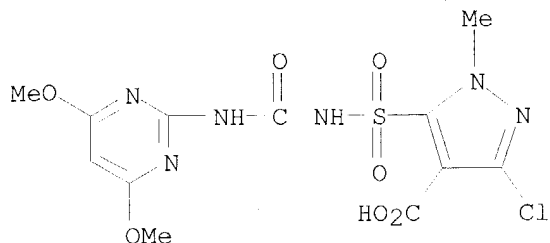
(\*File contains numerically searchable property data)

DT.CA Caplus document type: Dissertation; Journal; Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

86 REFERENCES IN FILE CA (1907 TO DATE)  
24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
86 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:387282  
REFERENCE 2: 140:387280  
REFERENCE 3: 140:370191  
REFERENCE 4: 140:316557  
REFERENCE 5: 140:212481  
REFERENCE 6: 140:159049  
REFERENCE 7: 140:37378  
REFERENCE 8: 140:787  
REFERENCE 9: 139:303268  
REFERENCE 10: 139:241692

L17 ANSWER 5 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **126801-58-9** REGISTRY

CN Sulfamic acid, [[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-, 2-ethoxyphenyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Ethoxysulfuron

CN HOE 095404

FS 3D CONCORD

MF C15 H18 N4 O7 S

CI COM

SR CA

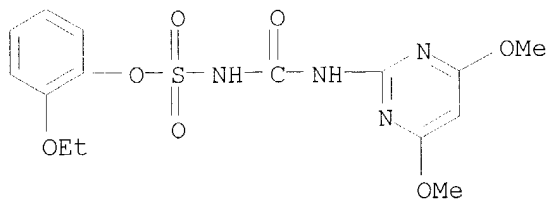
LC STN Files: ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, PROMT, TOXCENTER, USPAT2, USPATFULL

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); PRP (Properties); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

90 REFERENCES IN FILE CA (1907 TO DATE)  
43 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
90 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:370175  
REFERENCE 2: 140:248744  
REFERENCE 3: 140:194867  
REFERENCE 4: 140:159047  
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REFERENCE 6: 140:141104  
REFERENCE 7: 140:124047  
REFERENCE 8: 140:106955  
REFERENCE 9: 140:89300  
REFERENCE 10: 139:272374

L17 ANSWER 6 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **122931-48-0** REGISTRY

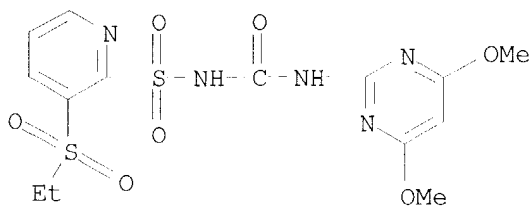
CN 2-Pyridinesulfonamide, N-[[ (4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(ethylsulfonyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN DPX-E 9636  
CN Matrix  
CN Rimsulfuron  
CN Tarot  
CN Titus  
CN Titus (pesticide)  
MF C14 H17 N5 O7 S2  
CI COM  
SR CA

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, CA, CAPLUS, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, MRCK\*, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

DT.CA CAPLUS document type: Conference; Dissertation; Journal; Patent  
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

326 REFERENCES IN FILE CA (1907 TO DATE)  
 55 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 327 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:387280  
 REFERENCE 2: 140:357359  
 REFERENCE 3: 140:248744  
 REFERENCE 4: 140:199329  
 REFERENCE 5: 140:194867  
 REFERENCE 6: 140:159049  
 REFERENCE 7: 140:159047  
 REFERENCE 8: 140:158867  
 REFERENCE 9: 140:141108  
 REFERENCE 10: 140:141104

L17 ANSWER 7 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **122548-33-8** REGISTRY

CN Imidazo[1,2-a]pyridine-3-sulfonamide, 2-chloro-N-[[4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Imazosulfuron

CN Takeoff

CN TH 913

FS 3D CONCORD

MF C14 H13 Cl N6 O5 S

CI COM

SR CA

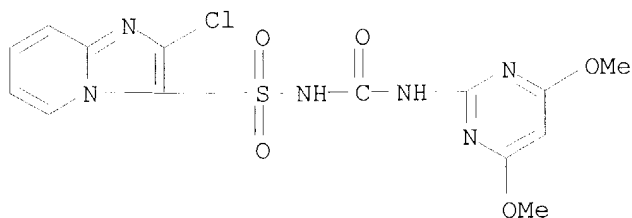
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CBNB, CEN, CHEMLIST, CIN, MRCK\*, PROMT, RTECS\*, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

194 REFERENCES IN FILE CA (1907 TO DATE)  
 64 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 194 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:370625  
 REFERENCE 2: 140:298921  
 REFERENCE 3: 140:266097  
 REFERENCE 4: 140:248744  
 REFERENCE 5: 140:204630  
 REFERENCE 6: 140:194906  
 REFERENCE 7: 140:159047  
 REFERENCE 8: 140:141108  
 REFERENCE 9: 140:141104  
 REFERENCE 10: 140:124047

L17 ANSWER 8 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **120162-55-2** REGISTRY

CN 1H-Pyrazole-5-sulfonamide, N-[[[4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-1-methyl-4-(2-methyl-2H-tetrazol-5-yl)- (9CI)  
 (CA INDEX NAME)

OTHER NAMES:

CN Azimsulfuron  
 CN DPX 47  
 CN DPX-A 8947  
 CN IN-A 8947  
 FS 3D CONCORD  
 MF C13 H16 N10 O5 S  
 CI COM  
 SR CA

LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CBNB, CHEMLIST, MEDLINE, MRCK\*, NIOSHTIC, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

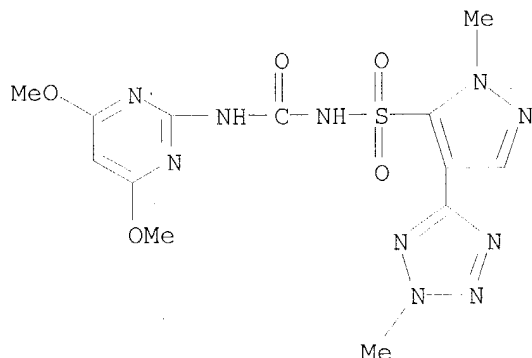
DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological



study); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

130 REFERENCES IN FILE CA (1907 TO DATE)  
 51 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 131 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:352018

REFERENCE 2: 140:248744

REFERENCE 3: 140:159047

REFERENCE 4: 140:141108

REFERENCE 5: 140:124047

REFERENCE 6: 140:106955

REFERENCE 7: 140:89300

REFERENCE 8: 140:787

REFERENCE 9: 139:392464

REFERENCE 10: 139:272374

L17 ANSWER 9 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **113036-87-6** REGISTRY

CN Benzoic acid, 2-[[[4,6-bis(difluoromethoxy)-2-pyrimidinyl]amino]carbonyl]amino]sulfonyl]- (9CI) (CA INDEX NAME)

**OTHER NAMES:**

CN Primisulfuron

MF C14 H10 F4 N4 O7 S

CI COM

SR CAS Client Services

LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CEN, CIN, TOXCENTER, USPAT2, USPATFULL

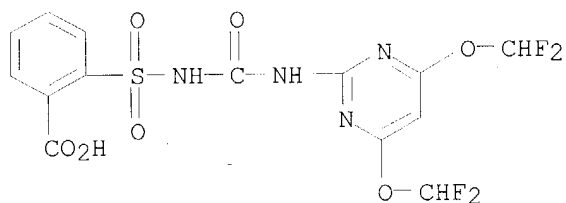
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PRP (Properties)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

212 REFERENCES IN FILE CA (1907 TO DATE)  
 33 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 212 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:370191  
 REFERENCE 2: 140:199329  
 REFERENCE 3: 140:141108  
 REFERENCE 4: 140:141050  
 REFERENCE 5: 140:72560  
 REFERENCE 6: 140:787  
 REFERENCE 7: 139:360362  
 REFERENCE 8: 139:303256  
 REFERENCE 9: 139:241692  
 REFERENCE 10: 139:64821

L17 ANSWER 10 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

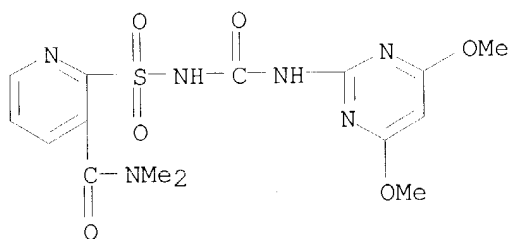
RN **111991-09-4** REGISTRY

CN 3-Pyridinecarboxamide, 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Accent  
 CN Accent (pesticide)  
 CN DPX-V 9360  
 CN EMA 1534  
 CN HU 195  
 CN Milagro  
 CN Motivell  
 CN Nicosulfuron

CN SL 950  
 MF C15 H18 N6 O6 S  
 CI COM  
 SR CA  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNE, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)  
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

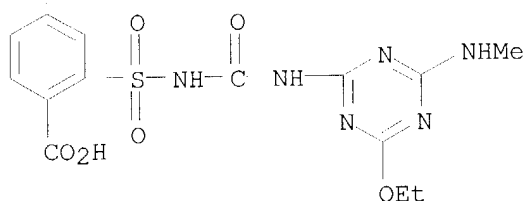
435 REFERENCES IN FILE CA (1907 TO DATE)  
 66 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 436 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:387283  
 REFERENCE 2: 140:248744  
 REFERENCE 3: 140:248662  
 REFERENCE 4: 140:230913  
 REFERENCE 5: 140:199329  
 REFERENCE 6: 140:159049  
 REFERENCE 7: 140:159047  
 REFERENCE 8: 140:141108  
 REFERENCE 9: 140:141104  
 REFERENCE 10: 140:141050

L17 ANSWER 11 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 111353-84-5 REGISTRY  
 CN Benzoic acid, 2-[[[4-ethoxy-6-(methylamino)-1,3,5-triazin-2-yl]amino]carbonyl]amino]sulfonyl]- (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN Ethametsulfuron  
 CN Muster  
 MF C14 H16 N6 O6 S  
 CI COM  
 SR CAS Client Services  
 LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, PIRA, TOXCENTER,  
 USPAT2, USPATFULL  
 DT.CA CAplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
 study); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); OCCU (Occurrence); PREP (Preparation); PRP (Properties); USES  
 (Uses)  
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological  
 study)



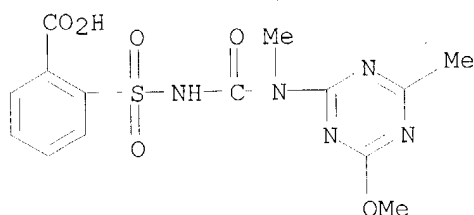
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44 REFERENCES IN FILE CA (1907 TO DATE)  
 8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 44 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:248661  
 REFERENCE 2: 140:248621  
 REFERENCE 3: 140:787  
 REFERENCE 4: 139:129350  
 REFERENCE 5: 139:73547  
 REFERENCE 6: 139:64821  
 REFERENCE 7: 138:267186  
 REFERENCE 8: 138:68344  
 REFERENCE 9: 137:364791  
 REFERENCE 10: 136:351651

L17 ANSWER 12 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 106040-48-6 REGISTRY  
 CN Benzoic acid, 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]amino]sulfonyl]- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Tribenuron  
 MF C14 H15 N5 O6 S  
 CI COM

SR CAS Client Services  
 LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CBNB,  
 TOXCENTER, USPAT2, USPATFULL  
 DT.CA Caplus document type: Conference; Journal; Patent  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
 PREP (Preparation); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP  
 (Properties); USES (Uses)  
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological  
 study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

120 REFERENCES IN FILE CA (1907 TO DATE)  
 22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 120 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:194749  
 REFERENCE 2: 140:158862  
 REFERENCE 3: 140:54974  
 REFERENCE 4: 140:787  
 REFERENCE 5: 139:392460  
 REFERENCE 6: 139:241692  
 REFERENCE 7: 139:241691  
 REFERENCE 8: 139:241690  
 REFERENCE 9: 139:241522  
 REFERENCE 10: 139:225814

L17 ANSWER 13 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

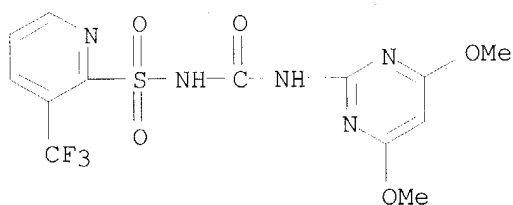
RN **104040-78-0** REGISTRY

CN 2-Pyridinesulfonamide, N-[[ (4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-  
 (trifluoromethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Chikara  
 CN Flazasulfuron  
 CN Katana  
 CN OK 1166  
 CN Shibagen  
 CN SL 160

MF C13 H12 F3 N5 O5 S  
 CI COM  
 SR CA  
 LC STN Files: AGRICOLA, ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CBNB,  
 CHEMCATS, CHEMLIST, CIN, CSChem, MRCK\*, PROMT, RTECS\*, TOXCENTER,  
 USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 DT.CA Caplus document type: Conference; Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC  
 (Process); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
 study); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP  
 (Properties); USES (Uses)



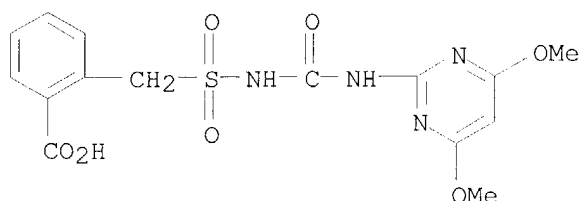
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

82 REFERENCES IN FILE CA (1907 TO DATE)  
 20 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 82 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:248744  
 REFERENCE 2: 140:248665  
 REFERENCE 3: 140:204630  
 REFERENCE 4: 140:159047  
 REFERENCE 5: 140:158996  
 REFERENCE 6: 140:141108  
 REFERENCE 7: 140:141104  
 REFERENCE 8: 140:127319  
 REFERENCE 9: 140:124047  
 REFERENCE 10: 140:106955

L17 ANSWER 14 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 99283-01-9 REGISTRY  
 CN Benzoic acid, 2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]methyl]- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Bensulfuron  
 FS 3D CONCORD  
 MF C15 H16 N4 O7 S

CI COM  
 SR CAS Client Services  
 LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CEN, CHEMLIST, TOXCENTER, USPAT2, USPATFULL  
 DT.CA Caplus document type: Conference; Journal; Patent  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

95 REFERENCES IN FILE CA (1907 TO DATE)  
 23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 96 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:387257  
 REFERENCE 2: 140:248624  
 REFERENCE 3: 140:54974  
 REFERENCE 4: 140:787  
 REFERENCE 5: 139:225814  
 REFERENCE 6: 139:190695  
 REFERENCE 7: 139:64821  
 REFERENCE 8: 139:2379  
 REFERENCE 9: 138:267186  
 REFERENCE 10: 138:68344

L17 ANSWER 15 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **98389-04-9** REGISTRY

CN 1H-Pyrazole-4-carboxylic acid, 5-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-1-methyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Pyrazosulfuron

FS 3D CONCORD

MF C12 H14 N6 O7 S

CI COM

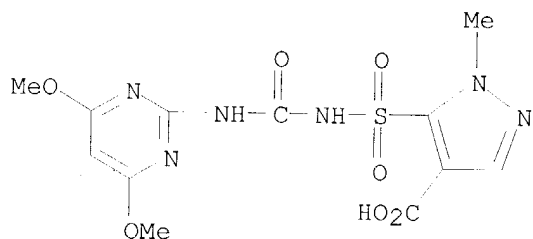
SR CA

LC STN Files: AGRICOLA, BIOSIS, CA, CABA, CAPLUS, CHEMLIST, CIN, PROMT,

RTECS\*, TOXCENTER, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

DT.CA Caplus document type: Journal; Patent  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
 PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
 study); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological  
 study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

41 REFERENCES IN FILE CA (1907 TO DATE)  
 19 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 41 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:370174  
 REFERENCE 2: 139:192911  
 REFERENCE 3: 139:64821  
 REFERENCE 4: 138:267186  
 REFERENCE 5: 138:250030  
 REFERENCE 6: 137:290314  
 REFERENCE 7: 137:274423  
 REFERENCE 8: 136:195645  
 REFERENCE 9: 135:299961  
 REFERENCE 10: 135:253266

L17 ANSWER 16 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN 94593-91-6 REGISTRY

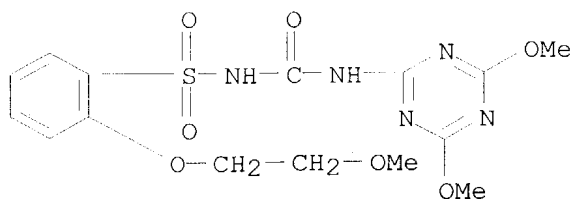
CN Benzenesulfonamide, N-[[[4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]-  
 2-(2-methoxyethoxy)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN CGA 142464  
 CN Cinosulfuron  
 CN Dimetrasulfuron  
 FS 3D CONCORD  
 MF C15 H19 N5 O7 S



CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CBNB, CHEMCATS, CHEMLIST, CSChem, MEDLINE, RTECS\*, SPECINFO, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 DT.CA Caplus document type: Conference; Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)  
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

169 REFERENCES IN FILE CA (1907 TO DATE)  
 59 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 169 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:248744  
 REFERENCE 2: 140:159047  
 REFERENCE 3: 140:158867  
 REFERENCE 4: 140:141108  
 REFERENCE 5: 140:141104  
 REFERENCE 6: 140:127319  
 REFERENCE 7: 140:124047  
 REFERENCE 8: 140:106955  
 REFERENCE 9: 140:89300  
 REFERENCE 10: 140:27561

L17 ANSWER 17 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN 94125-34-5 REGISTRY

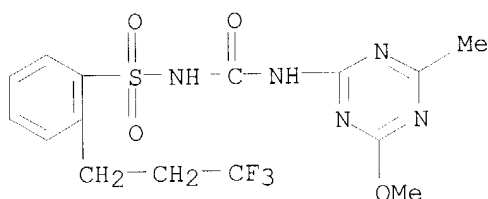
CN Benzenesulfonamide, N-[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-2-(3,3,3-trifluoropropyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN CGA 152005

CN N-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)-N'-[2-(3,3,3-trifluoroprop-1-yl)benzenesulfonyl]urea

CN Peak  
 CN Peak 57WG  
 CN Prosulfuron  
 FS 3D CONCORD  
 MF C15 H16 F3 N5 O4 S  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CSCHEM, MEDLINE, MRCK\*, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 DT.CA Caplus document type: Dissertation; Journal; Patent; Report  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)  
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

155 REFERENCES IN FILE CA (1907 TO DATE)  
 54 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 155 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:248744  
 REFERENCE 2: 140:199329  
 REFERENCE 3: 140:159049  
 REFERENCE 4: 140:159047  
 REFERENCE 5: 140:158867  
 REFERENCE 6: 140:141108  
 REFERENCE 7: 140:141104  
 REFERENCE 8: 140:127319  
 REFERENCE 9: 140:124047  
 REFERENCE 10: 140:106955

L17 ANSWER 18 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 93697-74-6 REGISTRY  
 CN 1H-Pyrazole-4-carboxylic acid, 5-[[[[(4,6-dimethoxy-2-

pyrimidinyl)amino]carbonyl]amino[sulfonyl]-1-methyl-, ethyl ester (9CI)  
(CA INDEX NAME)

OTHER NAMES:

CN Agreen  
CN Pyrazosulfuron-ethyl  
FS 3D CONCORD  
DR 129271-63-2  
MF C14 H18 N6 O7 S  
CI COM

LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CABA, CAPLUS,  
CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, PROMT, RTECS\*,  
TOXCENTER, USPAT2, USPATFULL

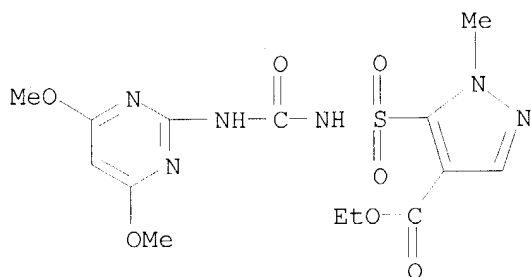
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DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or  
reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical  
study); BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP  
(Properties); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

262 REFERENCES IN FILE CA (1907 TO DATE)

58 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

262 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:375176

REFERENCE 2: 140:266097

REFERENCE 3: 140:248744

REFERENCE 4: 140:204630

REFERENCE 5: 140:159047

REFERENCE 6: 140:141108

REFERENCE 7: 140:141104

REFERENCE 8: 140:124047

REFERENCE 9: 140:106955

REFERENCE 10: 140:89300

L17 ANSWER 19 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **83055-99-6** REGISTRY

CN Benzoic acid, 2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]methyl]-, methyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Bensulfuron-methyl

CN Bianmihuanglong

CN DPX 84

CN DPX-F 5384

CN F 5384

CN Londax

CN Mariner

CN Methyl 2-[(4,6-dimethoxypyrimidin-2-yl)ureidosulfonylmethyl]benzoate

FS 3D CONCORD

DR 96081-37-7, 104466-83-3, 110280-01-8

MF C16 H18 N4 O7 S

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, MEDLINE, MRCK\*, MSDS-OHS, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

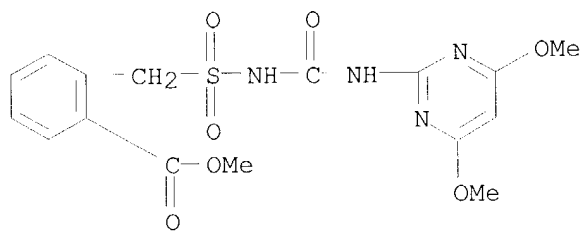
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

546 REFERENCES IN FILE CA (1907 TO DATE)

58 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

547 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:387274

REFERENCE 2: 140:316913

REFERENCE 3: 140:292004

REFERENCE 4: 140:266099

REFERENCE 5: 140:266097

REFERENCE 6: 140:266091  
 REFERENCE 7: 140:248744  
 REFERENCE 8: 140:248622  
 REFERENCE 9: 140:204630  
 REFERENCE 10: 140:159047

L17 ANSWER 20 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **82097-50-5** REGISTRY

CN Benzenesulfonamide, 2-(2-chloroethoxy)-N-[[4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Amber

CN CGA 131036

CN Logran

CN Triasulfuron

FS 3D CONCORD

DR 135100-29-7

MF C14 H16 Cl N5 O5 S

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, CA, CABA, CAPLUS, CBNB, CHEMCATS, CHEMLIST, CSChem, CSNB, MEDLINE, MRCK\*, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

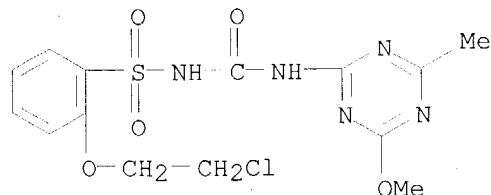
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PROC (Process); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

367 REFERENCES IN FILE CA (1907 TO DATE)

58 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

367 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:248744

REFERENCE 2: 140:248681

REFERENCE 3: 140:159047  
 REFERENCE 4: 140:158867  
 REFERENCE 5: 140:158862  
 REFERENCE 6: 140:141108  
 REFERENCE 7: 140:141104  
 REFERENCE 8: 140:127319  
 REFERENCE 9: 140:124047  
 REFERENCE 10: 140:106955

L17 ANSWER 21 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **79510-48-8** REGISTRY

CN Benzoic acid, 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Metsulfuron

MF C13 H13 N5 O6 S

CI COM

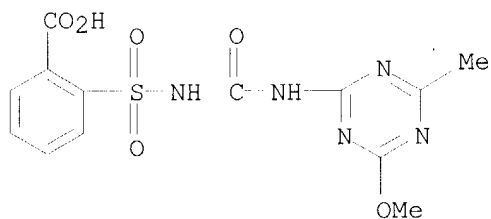
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CABA, CAPLUS, CASREACT, CBNB, PROMT, RTECS\*, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

223 REFERENCES IN FILE CA (1907 TO DATE)

25 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

223 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:356234  
 REFERENCE 2: 140:334069  
 REFERENCE 3: 140:266087  
 REFERENCE 4: 140:230909

REFERENCE 5: 140:194856  
 REFERENCE 6: 140:176698  
 REFERENCE 7: 140:141046  
 REFERENCE 8: 140:89256  
 REFERENCE 9: 140:787  
 REFERENCE 10: 139:360355

L17 ANSWER 22 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **79277-67-1** REGISTRY

CN 2-Thiophenecarboxylic acid, 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN L 9225

CN Thiameturon

CN Thifensulfuron

FS 3D CONCORD

DR 109946-38-5

MF C11 H11 N5 O6 S2

CI COM

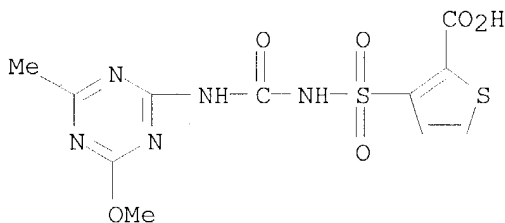
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB, PROMT, TOXCENTER, USPAT2, USPATFULL

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

189 REFERENCES IN FILE CA (1907 TO DATE)

34 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

189 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:159049  
 REFERENCE 2: 140:141050  
 REFERENCE 3: 140:787  
 REFERENCE 4: 139:241692

REFERENCE 5: 139:241691  
 REFERENCE 6: 139:241690  
 REFERENCE 7: 139:145110  
 REFERENCE 8: 139:64821  
 REFERENCE 9: 138:364149  
 REFERENCE 10: 138:282744

L17 ANSWER 23 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **79277-27-3** REGISTRY

CN 2-Thiophenecarboxylic acid, 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN DPX-M 6316  
 CN Harmony  
 CN Harmony 75DF  
 CN Pinnacle  
 CN Refine  
 CN Refine DF  
 CN Thiameturon-methyl  
 CN Thifensulfuron methyl  
 CN Thifensulfuron methyl ester  
 FS 3D CONCORD  
 MF C12 H13 N5 O6 S2  
 CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHM, CSNB, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

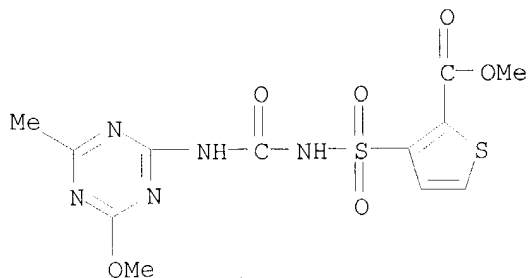
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*



302 REFERENCES IN FILE CA (1907 TO DATE)  
 41 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 302 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:286398  
 REFERENCE 2: 140:248744  
 REFERENCE 3: 140:199329  
 REFERENCE 4: 140:159047  
 REFERENCE 5: 140:141108  
 REFERENCE 6: 140:141104  
 REFERENCE 7: 140:127319  
 REFERENCE 8: 140:124047  
 REFERENCE 9: 140:106955  
 REFERENCE 10: 140:89300

L17 ANSWER 24 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **74223-64-6** REGISTRY

CN Benzoic acid, 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Ally  
 CN Ally 20DF  
 CN Brush-off  
 CN DPD 63760H  
 CN DPX 6376  
 CN DPX-T 6376  
 CN Escort  
 CN Escort (pesticide)  
 CN Granstar  
 CN Gropper  
 CN HCHA 92HA  
 CN Metsulfuron-methyl  
 CN N-[(2-Methoxycarbonyl)phenyl]sulfonyl-N'-(6-methoxy-4-methyl-2-triazinyl)urea  
 CN T 6376  
 DR 82197-07-7  
 MF C14 H15 N5 O6 S  
 CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB\*, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report

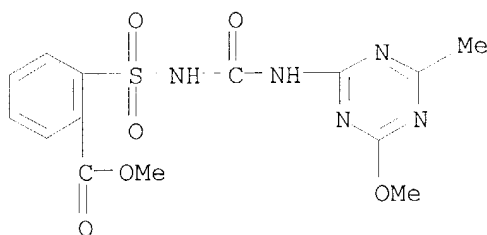
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PROC

(Process); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

723 REFERENCES IN FILE CA (1907 TO DATE)

46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

724 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:373983

REFERENCE 2: 140:357359

REFERENCE 3: 140:298802

REFERENCE 4: 140:266095

REFERENCE 5: 140:248744

REFERENCE 6: 140:248681

REFERENCE 7: 140:212294

REFERENCE 8: 140:176695

REFERENCE 9: 140:176687

REFERENCE 10: 140:159047

L17 ANSWER 25 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **64902-72-3** REGISTRY

CN Benzenesulfonamide, 2-chloro-N-[[ (4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Chlorsulfuron

CN DPX 4189

CN DPX-W 4189

CN Glean

CN Glean 20DF

CN Glean 75

CN Glean 75DF

CN Khardin

CN N-(2-Chlorophenyl)sulfonyl-N'-(4-methyl-6-methoxy-2-triazinyl)urea

CN Tuligen

CN W 4189

FS 3D CONCORD

DR 112143-77-8

MF C12 H12 Cl N5 O4 S

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CHEMCATS,  
 CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT,

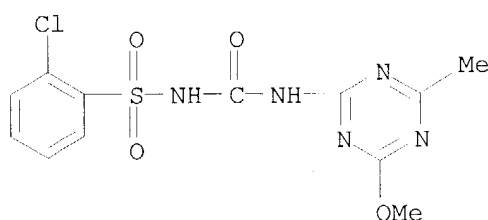
IFIUDB, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS\*,  
SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report  
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or  
reagent); USES (Uses)  
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
study); PREP (Preparation); USES (Uses)  
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC  
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)  
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical  
study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU  
(Occurrence)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1335 REFERENCES IN FILE CA (1907 TO DATE)

59 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1337 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:334069

REFERENCE 2: 140:266095

REFERENCE 3: 140:265957

REFERENCE 4: 140:248744

REFERENCE 5: 140:248681

REFERENCE 6: 140:194867

REFERENCE 7: 140:194859

REFERENCE 8: 140:194856

REFERENCE 9: 140:194839

REFERENCE 10: 140:176687

L17 ANSWER 26 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN 1156-19-0 REGISTRY

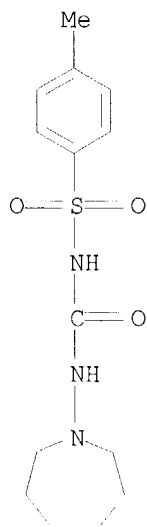
CN Benzenesulfonamide, N-[[ (hexahydro-1H-azepin-1-yl) amino] carbonyl]-4-methyl-  
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Urea, 1-(hexahydro-1H-azepin-1-yl)-3-(p-tolylsulfonyl)- (6CI, 7CI, 8CI)

OTHER NAMES:

CN 1-(4-Methylphenylsulfonyl)-3-(hexahydro-1H-azepin-1-yl)urea  
 CN 1-(Hexahydro-1-azepinyl)-3-p-tolylsulfonylurea  
 CN 1-(Hexahydro-1H-azepin-1-yl)-3-(p-tolylsulfonyl)urea  
 CN Diabewas  
 CN N-(p-Toluenesulfonyl)-N'-hexamethyleniminourea  
 CN Norglycin  
 CN NSC 70762  
 CN Tolanase  
 CN Tolazamide  
 CN Tolinase  
 CN U 17835  
 FS 3D CONCORD  
 MF C14 H21 N3 O3 S  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,  
 CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DIOGENES, DRUGU,  
 EMBASE, HSDB\*, IPA, MEDLINE, MRCK\*, NIOSHTIC, PROMT, PS, RTECS\*,  
 SPECINFO, TOXCENTER, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, WHO  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC  
 (Process); PRP (Properties); USES (Uses); NORL (No role in record)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
 study)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); PREP (Preparation); PROC (Process); PRP (Properties); RACT  
 (Reactant or reagent); USES (Uses); NORL (No role in record)  
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological  
 study)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

340 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 341 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:363072  
 REFERENCE 2: 140:357333  
 REFERENCE 3: 140:253571  
 REFERENCE 4: 140:199313  
 REFERENCE 5: 140:192277  
 REFERENCE 6: 140:105831  
 REFERENCE 7: 140:8791  
 REFERENCE 8: 139:391126  
 REFERENCE 9: 139:386449  
 REFERENCE 10: 139:374259

L17 ANSWER 27 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **1034-82-8** REGISTRY

CN Benzenesulfonamide, N-[(cycloheptylamino)carbonyl]-4-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Urea, 1-cycloheptyl-3-(p-tolylsulfonyl)- (7CI, 8CI)

OTHER NAMES:

CN 1-Cycloheptyl-3-p-tolylsulfonylurea

CN Cycloheptolamide

CN Cyclotolheptamide

CN D 656

CN Heptolamide

CN N-(4-Methylphenylsulfonyl)-N'-cycloheptylurea

CN N-4-Methylbenzenesulfonyl-N'-cycloheptylurea

CN U-14462

FS 3D CONCORD

MF C15 H22 N2 O3 S

CI COM

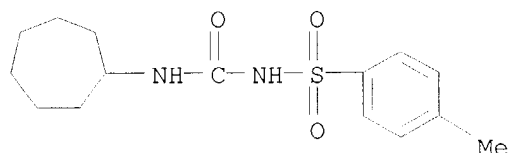
LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CHEMCATS, DDFU, DRUGU, USAN  
 (\*File contains numerically searchable property data)

Other Sources: WHO

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: NORL (No role in record)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); NORL (No role in record)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

17 REFERENCES IN FILE CA (1907 TO DATE)  
 17 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:359744  
 REFERENCE 2: 113:46186  
 REFERENCE 3: 65:93557  
 REFERENCE 4: 65:56140  
 REFERENCE 5: 65:23828  
 REFERENCE 6: 64:35353  
 REFERENCE 7: 64:27298  
 REFERENCE 8: 64:7851  
 REFERENCE 9: 64:7850  
 REFERENCE 10: 62:43710

L17 ANSWER 28 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **473-34-7** REGISTRY

CN Benzenesulfonamide, N,N-dichloro-4-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Dichloramine-T (6CI)

CN p-Toluenesulfonamide, N,N-dichloro- (7CI, 8CI)

OTHER NAMES:

CN Benzyl p-sulfondichloramide

CN N,N-Dichloro-4-methylbenzenesulfonamide

CN N,N-Dichloro-4-toluenesulfonamide

CN N,N-Dichloro-p-methylbenzenesulfonamide

CN N,N-Dichloro-p-toluenesulfonamide

CN N,N-Dichloro-p-tolylsulfonamide

CN NSC 1130

CN Peraktivin

FS 3D CONCORD

DR 33643-64-0, 110076-45-4

MF C7 H7 Cl2 N O2 S

CI COM

LC STN Files: ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, EMBASE, GMELIN\*, HODOC\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK\*, SPECINFO, TOXCENTER, USPATFULL

(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

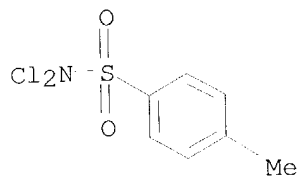
DT.CA Caplus document type: Conference; Journal; Patent; Report

RL.P Roles from patents: BIOL (Biological study); OCCU (Occurrence); PROC (Process); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: PRP (Properties); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

322 REFERENCES IN FILE CA (1907 TO DATE)  
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 323 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:200577  
 REFERENCE 2: 140:47567  
 REFERENCE 3: 139:395517  
 REFERENCE 4: 139:164745  
 REFERENCE 5: 139:159420  
 REFERENCE 6: 138:205310  
 REFERENCE 7: 138:124209  
 REFERENCE 8: 137:262983  
 REFERENCE 9: 137:109237  
 REFERENCE 10: 136:325501

L17 ANSWER 29 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN **80-13-7** REGISTRY

CN Benzoic acid, 4-[(dichloroamino)sulfonyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, p-(dichlorosulfamoyl)- (7CI, 8CI)

CN Halazone (6CI)

OTHER NAMES:

CN 4-Carboxy-N,N-dichlorobenzenesulfonamide

CN 4-[(Dichloroamino)sulfonyl]benzoic acid

CN Halazon

CN NSC 60717

CN p-(Dichlorosulfamoyl)benzoic acid

CN p-(N,N-Dichlorosulfamoyl)benzoic acid

CN p-(N,N-Dichlorosulfamyl)benzoic acid

CN p-Sulfondichloramidobenzoic acid

CN Pantocid

CN Pantocide

CN Pantosid

CN Pentocid

CN Zeptabs

FS 3D CONCORD

MF C7 H5 Cl2 N O4 S

CI COM

LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,  
 CHEMLIST, CIN, CSChem, DDFU, DIOGENES, DRUGU, EMBASE, HODOC\*, IFICDB,

IFIPAT, IFIUDB, IMSCOSEARCH, MEDLINE, MRCK\*, PROMT, PS, RTECS\*,  
SPECINFO, TOXCENTER, USAN, USPATFULL

(\*File contains numerically searchable property data)

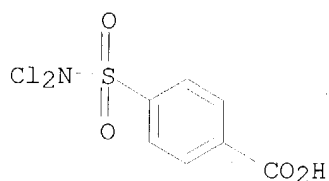
Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*, WHO

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

77 REFERENCES IN FILE CA (1907 TO DATE)

77 REFERENCES IN FILE CAPLUS (1907 TO DATE)

6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:47567

REFERENCE 2: 137:165000

REFERENCE 3: 137:108620

REFERENCE 4: 135:268683

REFERENCE 5: 133:315197

REFERENCE 6: 133:275905

REFERENCE 7: 133:179325

REFERENCE 8: 132:293042

REFERENCE 9: 132:156891

REFERENCE 10: 129:218312

L17 ANSWER 30 OF 30 REGISTRY COPYRIGHT 2004 ACS on STN

RN 64-77-7 REGISTRY

CN Benzenesulfonamide, N-[(butylamino)carbonyl]-4-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Urea, 1-butyl-3-(p-tolylsulfonyl)- (8CI)

OTHER NAMES:

CN 1-Butyl-3-(p-methylphenylsulfonyl)urea

CN 1-Butyl-3-(p-tolylsulfonyl)urea

CN 3-(p-Tolyl-4-sulfonyl)-1-butylurea

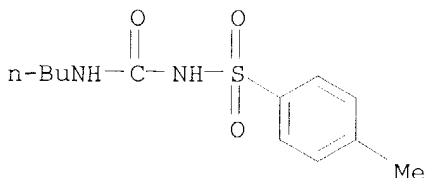
CN Aglicid

CN Arkozal



CN Artosin  
 CN Artozin  
 CN Butamid  
 CN Butamide  
 CN D 860  
 CN Diaben  
 CN Diabetamid  
 CN Diabetol  
 CN Diabuton  
 CN Diasulfon  
 CN Dolipol  
 CN Glyconon  
 CN HLS 831  
 CN Ipoglicone  
 CN Mobenol  
 CN N-(4-Methylbenzenesulfonyl)-N'-butylurea  
 CN N-(4-Methylphenylsulfonyl)-N'-butylurea  
 CN N-(p-Methylbenzenesulfonyl)-N'-butylurea  
 CN N-(p-Tolylsulfonyl)-N'-butylcarbamide  
 CN N-(Sulfonyl-p-methylbenzene)-N'-n-butylurea  
 CN N-Butyl-N'-(4-methylphenylsulfonyl)urea  
 CN N-Butyl-N'-(p-tolylsulfonyl)urea  
 CN N-Butyl-N'-p-toluenesulfonylurea  
 CN N-n-Butyl-N'-tosylurea  
 CN NSC 23813  
 CN NSC 87833  
 CN Orabet  
 CN Oralin  
 CN Orezan  
 CN Orinase  
 CN Orinaz  
 CN Oterben  
 CN Pramidex  
 CN Rastinon  
 CN Tolbusal  
 CN Tolbutamid  
 CN Tolbutamide  
 CN Toluina  
 CN Tolumid  
 CN Tolumide  
 CN Toluvan  
 CN U 2043  
 CN Willbutamide  
 FS 3D CONCORD  
 DR 100735-34-0  
 MF C12 H18 N2 O3 S  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,  
 CHEMLIST, CIN, CSCHM, DDFU, DIOGENES, DRUGU, EMBASE, HODOC\*, HSDB\*,  
 IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK\*, NIOSHTIC,  
 PROMT, PS, RTECS\*, SPECINFO, TOXCENTER, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*, WHO  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;  
 Report  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
 PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or  
 reagent); USES (Uses); NORL (No role in record)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
 study)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological

study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)  
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3701 REFERENCES IN FILE CA (1907 TO DATE)  
 25 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 3706 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 74 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:395395  
 REFERENCE 2: 140:388993  
 REFERENCE 3: 140:368436  
 REFERENCE 4: 140:368434  
 REFERENCE 5: 140:368059  
 REFERENCE 6: 140:368053  
 REFERENCE 7: 140:363072  
 REFERENCE 8: 140:357333  
 REFERENCE 9: 140:352447  
 REFERENCE 10: 140:350336

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=> fil hcaplus  
 FILE 'HCAPLUS' ENTERED AT 12:26:41 ON 09 JUN 2004  
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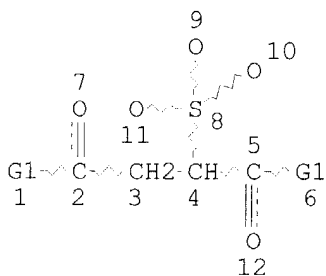
FILE COVERS 1907 - 9 Jun 2004 VOL 140 ISS 24  
FILE LAST UPDATED: 8 Jun 2004 (20040608/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1 STR



VAR G1=O/NH

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L3 3283 SEA FILE=REGISTRY SSS FUL L1  
L4 133 SEA FILE=HCAPLUS ABB=ON PLU=ON ALS(W)INHIBITOR  
L5 329 SEA FILE=REGISTRY ABB=ON PLU=ON ACETOLACTATE SYNTHASE?/CN  
L6 1577 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ACETOLACTATE(W)SYNTH?  
L7 605 SEA FILE=HCAPLUS ABB=ON PLU=ON L6(L)INHIBIT?  
L8 638 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 OR L7  
L9 12352 SEA FILE=HCAPLUS ABB=ON PLU=ON L3  
L10 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND L8  
L11 465 SEA FILE=REGISTRY ABB=ON PLU=ON SULFONYLURE? OR CHLORSULFUR?  
OR CHLOIMURON? OR METSULFUR? OR SULFURON? OR SULFUMET? OR  
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L14 38 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 NOT L10  
L18 944 SEA FILE=REGISTRY ABB=ON PLU=ON NICOSULFURON OR FLUPYRSULFURO  
N OR PYRIDYLSULFONYLUR? OR IMIDAZOLYLSULFONY? OR MON(W)37500  
OR AMIDOSULF? OR AZIMSULFU? OR BENSULFUR? OR CINOSULF? OR  
CYCLOSULF? OR ETHAMETSUL? OR ETHOXYSULF? OR FLAZASULF? OR  
FLUPYRSUL?  
L19 128 SEA FILE=REGISTRY ABB=ON PLU=ON HALOSULFU? OR IMAZOSULF? OR  
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OR SULFOMETUR?

L20 15287 SEA FILE=REGISTRY ABB=ON PLU=ON SULFOSULFUR? OR THIFENSULFUR?  
OR TRIASULF? OR TRIBEN? OR TRIFLUSULFUR? OR IODOSULFU? OR  
MESOSULFUR? OR FORAMSULFUR?

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FLAZASULF? OR FLUPYRSUL?

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RIMSULFUR? OR SULFOMETUR?

L23 16418 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 OR SULFOSULFUR? OR  
THIFENSULFUR? OR TRIASULF? OR TRIBEN? OR TRIFLUSULFUR? OR  
IODOSULFU? OR MESOSULFUR? OR FORAMSULFUR?

L25 5 SEA FILE=HCAPLUS ABB=ON PLU=ON (L21 OR L22 OR L23) (L) L9

L26 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 NOT (L10 OR L14)

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L26 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:353263 HCAPLUS

DOCUMENT NUMBER: 136:374830

TITLE: Novel dispersible and soluble galenic paracetamol  
formulation, method for its preparation and its  
applications

INVENTOR(S): Carvajal Martin, Luis; Asensio Asensio, Juan Carlos;  
Sevilla Tirado, Francisco Javier

PATENT ASSIGNEE(S): Laboratorios Belmac, S.A., Spain

SOURCE: PCT Int. Appl., 20 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Spanish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002036101	A1	20020510	WO 2001-ES402	20011024
W: JP, PL, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
ES 2174734	A1	20021101	ES 2000-2653	20001103
ES 2174734	B1	20031001		
EP 1331001	A1	20030730	EP 2001-976327	20011024
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
JP 2004512355	T2	20040422	JP 2002-538913	20011024
US 2002197312	A1	20021226	US 2002-188680	20020703
US 6620433	B2	20030916		

PRIORITY APPLN. INFO.: ES 2000-2653 A 20001103  
WO 2001-ES402 W 20011024

AB The novel galenic paracetamol formulation consists of a base mixture of paracetamol and citric acid in a proportion from 85:15 to 90:10 weight % amongst other pharmaceutically acceptable components in a dried state with water activity of less than 0.6 and in the form of a powder, granulate or tablet. The method involves obtaining said dried base mixture with a water activity of less than 0.6 with the purpose of obtaining a powder that may be granulated to obtain a dispersible and water-soluble granulate, which can also be compressed to obtain a dispersible and water-soluble tablet. This

novel formulation can be used in human and veterinary medicine.

IT **96323-92-1**

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(dispersible and soluble galenic paracetamol formulation)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:493472 HCAPLUS

DOCUMENT NUMBER: 132:124443

TITLE: New technological conditions and characteristics for production of disodium alcohol ethoxysulfosuccinate monoester

AUTHOR(S): Chen, Weiping; Tu, Hua

CORPORATE SOURCE: Department of Chemical Engineering, Central South University of Technology, Changsha, 410083, Peop. Rep. China

SOURCE: Zhongnan Gongye Daxue Xuebao (1999), 30(2), 166-168  
CODEN: ZGDXFY; ISSN: 1005-9792

PUBLISHER: Zhongnan Gongye Daxue

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB According to the problem existing in the industrial production of disodium alc. ethoxysulfosuccinate monoester, new technol. conditions and characteristics were studied. Using the catalyst synthesized by the author, esterification reaction temperature reduced from 120° to 70°, reaction time reduced from 15 h to 2 h, and production ratio increased from 95% to 98.7%. The new method is a good approach to produce this perfect product at lower cost.

IT **104485-38-3DP**, alkyl monoether

RL: IMF (Industrial manufacture); PREP (Preparation)

(new technol. conditions and characteristics for production of disodium alc. **ethoxysulfosuccinate** monoester)

L26 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1985:187506 HCAPLUS

DOCUMENT NUMBER: 102:187506

TITLE: Composition of a charge for a chemical foam fire extinguisher

INVENTOR(S): Zelenkin, V. M.; Uglov, A. V.

PATENT ASSIGNEE(S): All-Union Scientific-Research Institute of Fire Prevention, USSR

SOURCE: U.S.S.R. From: Otkrytiya, Izobret. 1984, (47), 39.  
CODEN: URXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Russian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 1130357	A1	19841223	SU 1982-3550019	19821130
PRIORITY APPLN. INFO.:			SU 1982-3550019	19821130

AB Fire-extinguishing compns. with increased capacity for extinguishing combustible liqs. immiscible with water contain an acid part consisting of an aqueous solution of 19-26 H<sub>2</sub>SO<sub>4</sub>, 18-25 weight% ferric sulfate, and the balance water and an alkaline part consisting of 4.6-4.7 NaHCO<sub>3</sub>, 0.1-5.0 weight% disodium mono-2-(alkanamido)-ethylsuccinatosulfonate as the foaming agent, and the balance, water.

IT **96323-92-1D**, 2-alkanamido derivs.

RL: USES (Uses)

(foaming agents, in fire extinguishers containing acid and alkaline components)

L26 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1981:499617 HCAPLUS

DOCUMENT NUMBER: 95:99617

TITLE: Aqueous emulsions of rosins and rosin derivatives

PATENT ASSIGNEE(S): Toho Chemical Industry Co., Ltd., Japan; Kindai Chemical Industry Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 56041226	A2	19810417	JP 1979-115768	19790911
JP 60031330	B4	19850722		

PRIORITY APPLN. INFO.: JP 1979-115768 19790911

AB Rosin sizes for paper are prepared by using RO(R10)NOCCHSO3MCH2CO(OR1)nOR (R = aryl or alkylaryl; R1 = ethylene or propylene; n = 5-40, M = H, ammonium, or univalent metals) as emulsifiers. Thus, 90 parts rosin and 4 parts paraformaldehyde were heated at 170-180° for 3 h, mixed with 10 parts fumaric acid, esterified at 200-210° for 4 h, melted (57.7 parts) at 140-150°, mixed with 3.6 parts poly(oxyethylene) **tribenzylphenyl** ether sulfosuccinate Na salt [78688-53-6], mixed with 15.3 parts 3.8% aqueous KOH at the same temperature under pressure, emulsified, mixed with 46 parts warm water, and passed through a high-pressure emulsifying apparatus at 95° to give a 50.1% emulsion having good emulsion properties.

=&gt; select hit rn 126 1-4

E38 THROUGH E39 ASSIGNED

=&gt; fil reg

FILE 'REGISTRY' ENTERED AT 12:27:00 ON 09 JUN 2004

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STRUCTURE FILE UPDATES: 8 JUN 2004 HIGHEST RN 690955-30-7

DICTIONARY FILE UPDATES: 8 JUN 2004 HIGHEST RN 690955-30-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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=&gt; s e38-e39

1 96323-92-1/BI  
(96323-92-1/RN)1 104485-38-3/BI  
(104485-38-3/RN)

L27 2 (96323-92-1/BI OR 104485-38-3/BI)

=&gt; d ide can l27 1-2

L27 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN

RN **104485-38-3** REGISTRYCN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(3-carboxy-1-oxosulfopropyl)- $\omega$ -hydroxy-, disodium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Polyethylene glycol disodium sulfosuccinate

MF (C2 H4 O)<sub>n</sub> C4 H6 O7 S . 2 Na

CI IDS, PMS

PCT Polyester, Polyether, Polyother

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

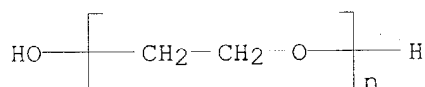
RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); PRP (Properties); USES (Uses)

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CRN 25322-68-3

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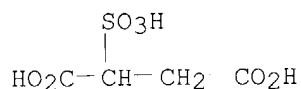
CCI PMS



CM 2

CRN 5138-18-1

CMF C4 H6 O7 S



18 REFERENCES IN FILE CA (1907 TO DATE)

13 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:202112

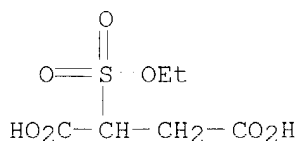
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REFERENCE 3: 138:275927

REFERENCE 4: 138:95273

REFERENCE 5: 136:281183  
 REFERENCE 6: 135:200196  
 REFERENCE 7: 134:354330  
 REFERENCE 8: 132:124443  
 REFERENCE 9: 124:149310  
 REFERENCE 10: 123:17455

L27 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 96323-92-1 REGISTRY  
 CN Butanedioic acid, (ethoxysulfonyl)-, disodium salt (9CI) (CA INDEX NAME)  
 MF C6 H10 O7 S . 2 Na  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL  
 DT.CA Caplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PROC (Process); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: USES (Uses)



● 2 Na

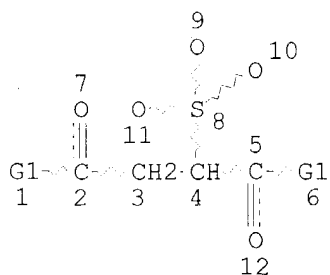
2 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:374830  
 REFERENCE 2: 102:187506

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L1 STR



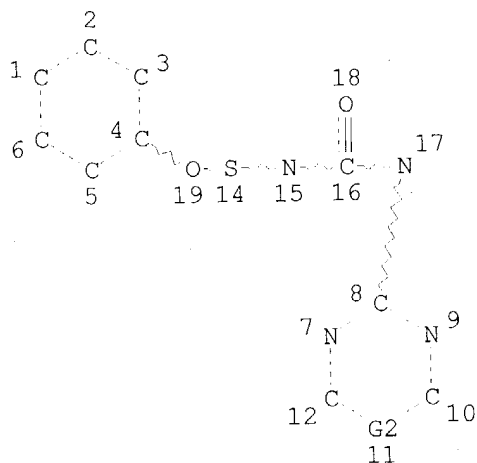
VAR G1=O/NH  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED



GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L3 3283 SEA FILE=REGISTRY SSS FUL L1  
L4 133 SEA FILE=HCAPLUS ABB=ON PLU=ON ALS(W)INHIBITOR  
L5 329 SEA FILE=REGISTRY ABB=ON PLU=ON ACETOLACTATE SYNTHASE?/CN  
L6 1577 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ACETOLACTATE(W) SYNTH?  
L7 605 SEA FILE=HCAPLUS ABB=ON PLU=ON L6(L)INHIBIT?  
L8 638 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 OR L7  
L9 12352 SEA FILE=HCAPLUS ABB=ON PLU=ON L3  
L10 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND L8  
L11 465 SEA FILE=REGISTRY ABB=ON PLU=ON SULFONYLURE? OR CHLORSULFUR?  
OR CHLOIMURON? OR METSULFUR? OR SULFURON? OR SULFUMET? OR  
TRIBENURO? OR IODOSULFURON? OR SULFONDI?  
L12 14200 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 OR ?SULFONYLURE? OR  
?CHLORSULFUR? OR ?CHLOIMURON? OR ?METSULFUR? OR ?SULFURON? OR  
?SULFUMET? OR ?TRIBENURO? OR ?IODOSULFURON? OR ?SULFONDI?  
L13 39 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND L9  
L14 38 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 NOT L10  
L18 944 SEA FILE=REGISTRY ABB=ON PLU=ON NICOSULFURON OR FLUPYRSULFURO  
N OR PYRIDYLSULFONYLUR? OR IMIDAZOLYLSULFONY? OR MON(W)37500  
OR AMIDOSULF? OR AZIMSULFU? OR BENSULFUR? OR CINOSULF? OR  
CYCLOSULF? OR ETHAMETSUL? OR ETHOXYSULF? OR FLAZASULF? OR  
FLUPYRSUL?  
L19 128 SEA FILE=REGISTRY ABB=ON PLU=ON HALOSULFU? OR IMAZOSULF? OR  
OXASULF? OR PRIMISULF? OR PROSULF? OR PYRAZOSUL? OR RIMSULFUR?  
OR SULFOMETUR?  
L20 15287 SEA FILE=REGISTRY ABB=ON PLU=ON SULFOSULFUR? OR THIFENSULFUR?  
OR TRIASULF? OR TRIBEN? OR TRIFLUSULFUR? OR IODOSULFU? OR  
MESOSULFUR? OR FORAMSULFUR?  
L21 10169 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 OR NICOSULFURON OR  
FLUPYRSULFURON OR PYRIDYLSULFONYLUR? OR IMIDAZOLYLSULFONY? OR  
MON(W)37500 OR AMIDOSULF? OR AZIMSULFU? OR BENSULFUR? OR  
CINOSULF? OR CYCLOSULF? OR ETHAMETSUL? OR ETHOXYSULF? OR  
FLAZASULF? OR FLUPYRSUL?  
L22 1905 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 OR HALOSULFU? OR IMAZOSULF  
? OR OXASULF? OR PRIMISULF? OR PROSULF? OR PYRAZOSUL? OR  
RIMSULFUR? OR SULFOMETUR?  
L23 16418 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 OR SULFOSULFUR? OR  
THIFENSULFUR? OR TRIASULF? OR TRIBEN? OR TRIFLUSULFUR? OR  
IODOSULFU? OR MESOSULFUR? OR FORAMSULFUR?  
L25 5 SEA FILE=HCAPLUS ABB=ON PLU=ON (L21 OR L22 OR L23) (L) L9  
L26 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 NOT (L10 OR L14)  
L38 STR



VAR G2=CH/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L39 504 SEA FILE=REGISTRY SSS FUL L38

L40 129 SEA FILE=HCAPLUS ABB=ON PLU=ON L39

L41 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND L9

L42 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L41 NOT (L10 OR L14 OR L26)

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